

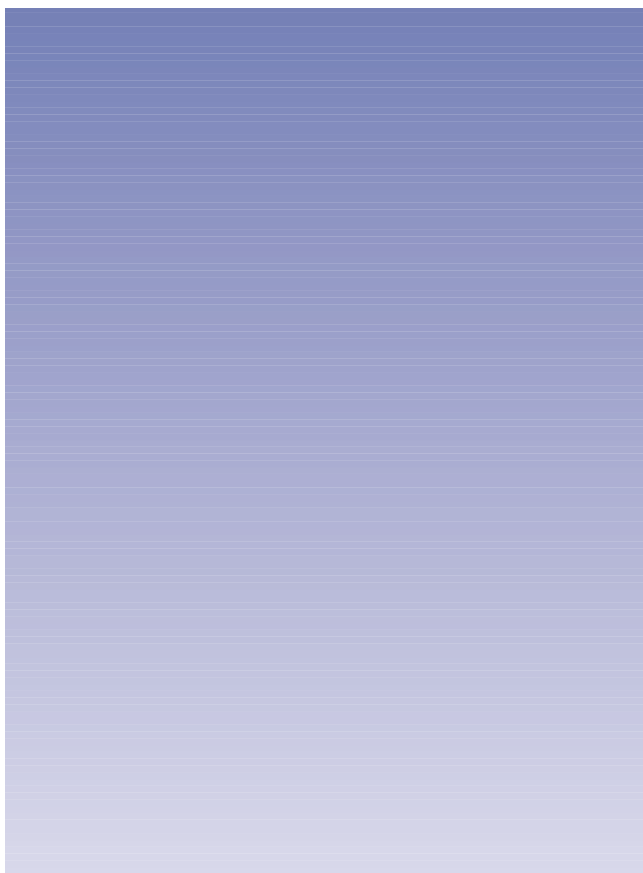


# COLOR TELEVISION RECEIVER

Chassis : KS2A(P) (REV.1)  
Model : CS2551SX/XTT

# ***SERVICE*** *Manual*

## COLOR TELEVISION RECEIVER



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## 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

### 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

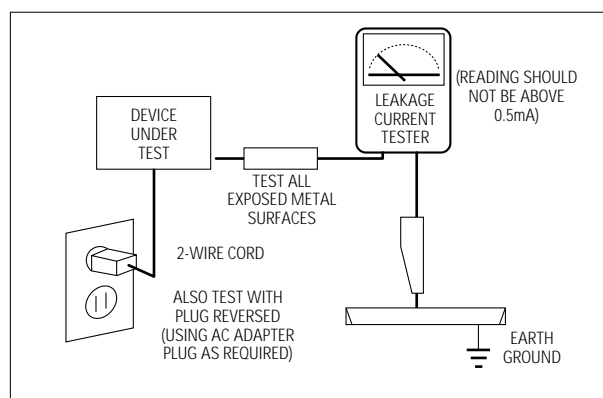




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced.  
(X-ray protection circuits also may be called "horizontal disable" or "hold-down".)  
  
Heed the high voltage limits. These include the X-ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or (). Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.



## 1-2 Servicing Precautions

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Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to:  
(a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.



### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.



## 2. Reference Information

### 2-1 Tables of Abbreviations and Acronyms

Table 2-1 Abbreviations

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	MΩ	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	μA	Microampere
°C	Degree Celsius	μF	Microfarad
°F	Degree Fahrenheit	μH	Microhenry
°K	degree Kelvin	μm	Micrometer
F	Farad	μs	Microsecond
G	Gauss	μW	Microwatt
GHz	Gigahertz	mA	Milliampere
g	Gram	mg	Milligram
H	Henry	mH	Millihenry
Hz	Hertz	ml	Milliliter
h	Hour	mm	Millimeter
ips	Inches Per Second	ms	Millisecond
kWh	Kilowatt-hour	mV	Millivolt
kg	Kilogram	nF	Nanofarad
kHz	Kilohertz	Ω	Ohm
kΩ	Kilohm	pF	Picofarad
km	Kilometer	lb	Pound
km/h	Kilometer Per Hour	rpm	Revolutions Per Minute
kV	Kilovolt	rps	Revolutions Per Second
kVA	Kilovolt-ampere	s	Second (Time)
kW	Kilowatt	V	Volt
l	Liter	VA	Volt-ampere
MHz	Megahertz	W	Watt
		Wh	Watt-hour



Table 2-2 Table of Acronyms

ABL	Automatic Brightness Limiter	I/O	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
CB	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VIF	Video Intermediate Frequency
HF	High-Frequency	VR	Variable Resistor
HI-FI	High Fidelity	VTR	Video Tape Recorder
IC	Inductance-Capacitance	VTVM	Vacuum Tube Voltmeter
IC	Integrated Circuit	TR	Transistor
IF	Intermediate Frequency		





## 2-2 IC Line Up

Table 2 - 3 IC Line - Up					
NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK
1	MAIN	IC201S	VDP3112B	Video Processor	Refer to Table 2-3-1
		IC601	MSP3410D	Multistandard Sound Processor	Refer to Table 2-3-2
		IC901	SDA555X	MICOM, TTX(MTP)	
		IC902	KS24L161	EEPROM	
		IC602	TDA7297	Audio AMP	Refer to Table 2-3-3
		HIC201	DRGB001	RGB Drive AMP Hybrid IC	VM Option
		IC301	LA7845	Vertical IC	
		Q401	KSD5703	Horizontal Drive IC	DH01
		D409	FMP-3FU		
		IC401	KA393	E/W Drive IC	
		Q404	IRF620		
		IC801S	3S1265R	SPS Controllor	DDR01
		D801S	RBV606	Bridge Diode	
		PC801S	PC123Y	Photo Coupler	
		IC805	KA78R05	5V Controlled Regulator	
		D806	FML-G12S	Rectifier Diode	
		D807			
		D805	FMG-G26S		
		IC804	KA7806	6V Regulator	
		IC803	KA78R08	8V Controlled Regulator	
		IC903	KA78RM33	3.3V Regulator	
		IC904	KIA7025AP	MICOM Reset IC	
		Q909	2N7000	IIC Level Shifter	
		Q910			
		TU01	TCPW3001PD09A(S)	Main Tuner with IF Block	Refer to Table 2-3-4
		D813	FML-G12S	Rectifier Diode	



Reference Information

Table 2 - 3 IC Line - Up					
NO	BOARD	LOC. NO	SPEC	DESCRIPTION	REMARK
2	CRT	IC501	TDA6101Q	Video Output AMP R.G.B Drive	
		IC502			
		IC503			
		QF04	2SC2344	Push-Pull (VM)	Option
		QF05	2SA1011		
3	V-S/W	ICS01	TEA6425	Video Switching IC with Adder Output	Option
4	PIP	ICP01	SDA9488X	High-end Picture-In Picture IC	Option



Table 2-3-1 VIDEO IC

SPEC	FUNCTION	REMARK
VDP3108B	50Hz Basic 1H Comb Filter	
VDP3130Y	50Hz, 2H Comb Filter, DVD Input	

Table 2-3-2 SOUND IC

SPEC	FUNCTION	REMARK
MSP3400D	Multistandard, A2 Stereo, Equalizer, 2 Scart, RCA9P	
MSP3410D	Multistandard, A2 Stereo, Nicam, Equalizer, 2 Scart, RCA9P	
MSP3405D/BSP3505D	Multistandard, Line-Stereo, Mono, RCA9P	

Table 2-3-3 SOUND AMP

SPEC	FUNCTION	REMARK
TDA7297	15W x 2CH, 10W x 2CH	
TDA7266S	5W x 2CH	

Table 2-3-4 TUNER

SPEC	FUNCTION	REMARK
TCPS3001PD09A(S)	CS, Stereo	IF IC = Sanyo
TCPS3001PD09D(S)	CS, Stereo	IF IC = Philips
TCPS3001PD09C(S)	CS, Stereo, India	

Table 2-3-5 HORIZONTAL DRIVE IC (Q401)

SPEC	FUNCTION	REMARK
KSD5703	50Hz, With EW Model	
KSC5386	50Hz, W/O EW Model	



## MEMO



### 3. Specifications

<b>Television System</b>	<b>CS</b>	PAL/SECAM-B/G,D/K,I, NTSC-M	Depending on Tuner
	<b>CZ</b>	PAL/SECAM-B/G,D/K,I, NTSC4.43	
	<b>CT</b>	NTSC-M	
	<b>CL</b>	PAL-M,N, NTSC-M	
<b>Antena Input</b>		75ohms, Coaxial Cable	
<b>Power</b>	<b>Consumption</b>	100W (Applied When 21" Flat)	
	<b>Requirements</b>	220V Only	
		Free Voltage	Not Present R815
	<b>Frequency</b>	50/60Hz	
<b>Sound</b>	<b>Output</b>	15W x 2CH	
		10W x 2CH	
		5W x 2CH	
	<b>Effect</b>	Turbo Sound	
		Pseudo Stereo	
<b>Jacks</b>	<b>Front (AV2)</b>	RCA Input	
		S-VHS	Option
		Head-Phone	
	<b>Back</b>	2Scart Input/Output	AV1 : Scart I/O, RGB Input, RF Out AV2 : Scart I/O, Monitor Out
		DVD Input(YPbPr)	Option
		RCA Input/Output	AV1: Video/Audio-R/Audio-L AV2: Video/Audio-R/Audio-L Monitor Out : Video/Audio-R/Audio-L
		S-VHS	Option

Specifications are subject to change.



# MEMO



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## 4. Alignment and Adjustments

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### 4-1 General Alignment Instructions

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1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. Observe the picture for good black and white details. There should be objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

### 4-2 Automatic Degaussing

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A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color purity and Convergence adjustments.

### 4-3 High Voltage Check

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**CAUTION :** There is no high voltage adjustment on this chassis. The B+ power supply should be +135 volts (with full color- bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 30 KV under any conditions.



## 4-4 FOCUS Adjustment

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1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

## 4-5 SCREEN Adjustment

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1. Input Toshiba Pattern
2. Enter "Service Mode".(Refer to "4-8-1 Service Mode")
3. Select "G2-Adjust".
4. Set the values as below.

Table 1. Screen Adjustment Table

No	INCH / CRT	IBRM	WDRV	CDL	COLR G B (Smallest Value)	REGION
1	14" / SDI	205	35	100	100	Noraml
2	15PF / SDI	220	35	180	100	
		215	35	100	100	CIS
3	21" 1.7R / SDI	220	35	180	100	Noraml
4	21" 1.7R / JCT	220	35	200	150	
5	21PF / TSB	220	35	180	65	
6	21PF / LG	230	35	230	65	
7	21PF / SDI	220	35	210	65	
8	25PF / SDI	210	35	160	120	
9	29" 1.3R / SDI	200	35	170	150	

5. Turn the SCREEN VR until "MRCR G B" and "MRWDG" are green and those value are about 100.  
(The incorrect SCREEN Voltage may result that "MRCR G B" and "MRWDG" should be red)





## 4-6 E<sup>2</sup>PROM (IC902) Replacement

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1. When IC902 is replaced, all adjustment data revert to the initial values.  
So, all adjustment values when servicing should be readjusted.
2. After IC902 is replaced, connect the AC power supply cord.
3. Turn the power switch ON.
4. In stand-by, warm up the TV for at least 10 seconds.
5. Power on the TV.

## 4-7 White Balance Adjustment

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■ Equipment : Color-Analyzer (CA-100)

■ Input Signal : Pattern signal (Toshiba pattern)

1. Select STANDARD from the menu.
2. Input an 100% White pattern.
3. Enter the "Service Mode". (Refer to "4-8 Service Mode")
4. Warm up the TV set at least for 30 minutes.
5. Input a Toshiba pattern signal.
6. Enter the "Video Adjust1". (Refer to table 2.)
  - Adjust "Sub Contrast" so that Y (luminance) becomes  $65 \text{ ft} \pm 3$ .
  - Use "Red Drive" and "Blue Drive" to adjust High-Light (x : 265, y : 265)
  - Adjust "Sub Bright" so that Y (luminance) becomes  $1.2 \text{ ft} \pm 0.3$ .
  - Use "Red Cutoff" and "Blue Cutoff" to adjust Low-Light (x : 265, y : 265).
7. Adjust CA-100 so that the final adjustment value can be fixed.
8. Use the Channel Up/Down (▲/▼) buttons to move the cursor on the adjustment modes.
9. Use the Volume +/- buttons to change the adjustment value.



**Table 2. White Balance Table**

Area	Inch	High			Low		
		X	Y	Luminance (ft)	X	Y	Luminance (ft)
East South Asia	15PF	265	265	95	265	265	2.0
	21" 1.7R	265	265	60	265	265	1.5
	21PF	265	265	65	265	265	1.2
	25PF	265	265	50	265	265	1.4
	29" 1.3R	265	265	40	265	265	1.2
Middle East Asia & Africa	14"	290	300	60	290	300	2.0
	21" 1.7R	290	300	55	290	300	1.5
	21PF	290	300	65	290	300	1.2
	25PF	290	300	50	290	300	1.4
	29" 1.3R	290	300	40	290	300	1.2
CIS	15PF	272	270	55	265	266	2.2
	21" 1.7R	272	270	55	265	266	1.5
	21PF	272	270	55	265	266	2.2
	25PF	272	270	50	265	266	1.4
	29" 1.3R	272	270	35	265	266	2.2
Australia	15PF	292	307	95	301	311	2.0
	21" 1.7R	292	307	55	301	311	1.5
	21PF	292	307	65	301	311	1.2
	25PF	292	307	50	301	311	1.4
	29" 1.3R	292	307	40	301	311	1.2



## 4-8 Factory Adjustment

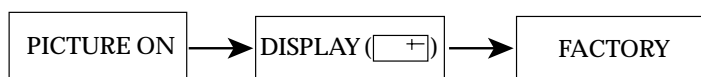
### 4-8-1 Service Mode

1. To enter the "Service Mode", Press the remote-control keys in this sequence :

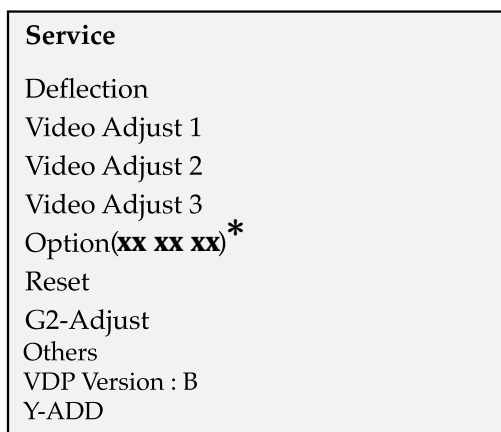
- If you do not have Factory remote-control



- If you have Factory remote-control



2. After the Service Mode is entered, the initial screen is as shown in the figure below.



\* These hexa digits are check sum value which depends on the MICOM version.  
If check sum value is changed, the value of E<sup>2</sup>PROM Data newly initialed.

3. Use the Channel Up/Down buttons to move the cursor in the adjustment parameters.

**Note :**

- When CRT, CRT PCB, FBT, E<sup>2</sup>PROM (sometimes MICOM) is replaced, the adjustment values should be controlled.
- After the Service adjustment is completed, Do not select "Reset" in the service mode menu.  
(After above procedure is done, power is on initially and the "Plug and Play" will be operated.)

## 4-8-2 Deflection (Memory Data)

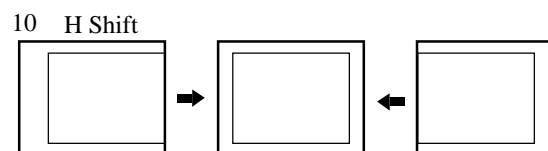
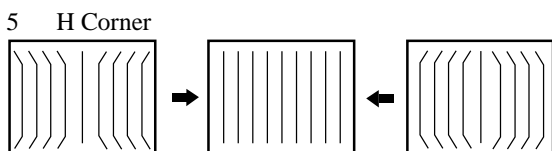
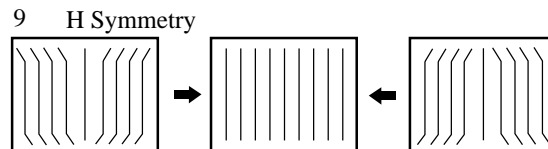
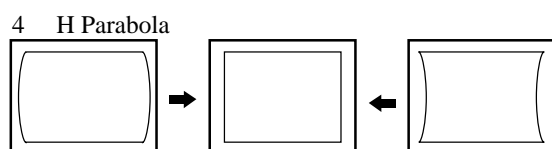
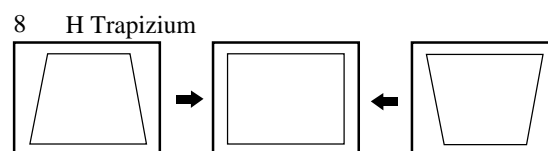
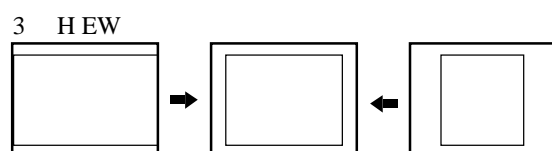
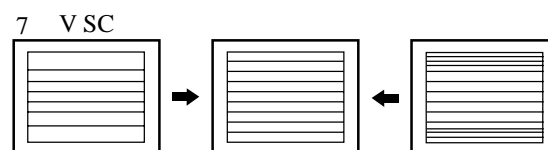
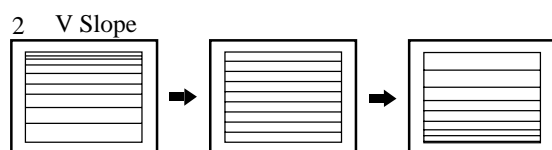
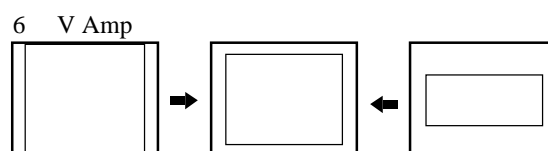
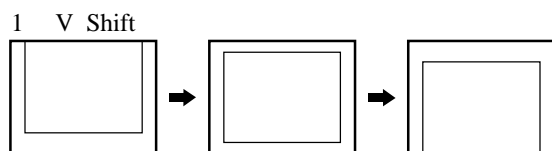
### 4-8-2(A) GEOMETRIC ADJUSTMENT VALUE

 Fixed Value

No.	OSD	Range	Initial Value	Function	Remark
1	V Shift	-128 ~ 127	-54	Vertical Shift	
2	V Amp	-128 ~ 127	15	Vertical Amplitude	
3	V Slope	-128 ~ 127	-2	Vertical Slope	
4	V SC	-128 ~ 127	-15	Vertical S-Correction	
5	H EW	-128 ~ 127	61	Horizontal East West Width	
6	H Trapezium	-128 ~ 127	-8	Horizontal Trapezium	
7	H Parabola	-128 ~ 127	-3	Horizontal Parabola	
8	H Symmetry	-128 ~ 127	12	Horizontal Symmetry	
9	H Corner	-128 ~ 127	-32	Horizontal Corner	
10	H Shift	-128 ~ 127	10	Horizontal Shift	
11	PIP Contrast	0 ~ 15	7	PIP Contrast	PIP Option
12	PIP Tint	0 ~ 63	0	PIP Tint (Hue)	
13	PIP H.Move	0 ~ 7	0	PIP Horizontal Move (PIP Picture)	
14	PIP V.Move	0 ~ 7	33	PIP Vertical Move (PIP Picture)	
15	PIP PAL V.Pos	0 ~ 255	33	PIP PAL System Vertical Position (PIP Box)	
16	PIP NTSC V.Pos	0 ~ 255	33	PIP NTSC System Vertical Position (PIP Box)	
17	PIP H.Pos	0 ~ 255	45	PIP Horizontal Position (PIP Box)	
18	PIP BLKLG	0 ~ 15	6	PIP BLAnKing Level Green	



4-8-2(B) SCREEN CHANGE (I2C BUS GEOMETRIC ADJUSTMENT)



Alignment and Adjustments

4-8-2(C) VIDEO ADJUST 1

 Fixed Value

No.	OSD	Range	Initial Value	Function	Remark
1	Red Cutoff	0 ~255	137	Adjust Red Cutoff Level	Low Light
2	Green Cutoff	0 ~255	127	Adjust Green Cutoff Level	
3	Blue Cutoff	0 ~255	152	Adjust Blue Cutoff Level	
4	Red Drive	0 ~255	142	Adjust Red Output Gain	High Light
5	Green Drive	0 ~255	127	Adjust Green Output Gain	
6	Blue Drive	0 ~255	136	Adjust Blue Output Gain	
7	Sub Bright	0 ~ 200	117	Adjust Brightness Level	Low Light
8	Sub Contrast	0 ~ 63	52	Adjust Contrast Level	High Light
9	Sub Color	0 ~ 27	27	Adjust Color Level	Not to be adjusted
10	Sub Tint	0 ~ 100	30	Adjust Tint	
11	BCL Threshold	0 ~ 255	62	Adjust Beam Control Limit Refer to Note 1.	Refer to table 4.
12	BCL Gain	0 ~ 15	8		Not to be adjusted
13	BCL Time	0 ~ 15	13		
14	TTX Contrast	0 ~ 255	90	Adjust OSD/TTX Contrast	Refer to table 4.
15	P.BG.YC Delay	0 ~ 8	3	Luminance vs Chrominance PAL BG System	Refer to Table 3.
16	P.DK.YC Delay	0 ~ 8	6	Luminance vs Chrominance PAL DK System	
17	P.I.YC Delay	0 ~ 8	6	Luminance vs Chrominance PAL I System	
18	S.BG.YC Delay	0 ~ 8	3	Luminance vs Chrominance SECAM BG System	
19	S.DK.YC Delay	0 ~ 8	5	Luminance vs Chrominance SEDAM DK System	
20	S.I.YC Delay	0 ~ 8	7	Luminance vs Chrominance SEDAM I System	
21	N.M.YC Delay	0 ~ 8	0	Luminance vs Chrominance NTSC System	
22	P.YC Delay	0 ~ 8	4	Luminance vs Chrominance PAL System in Video mode	
23	S.YC Delay	0 ~ 8	1	Luminance vs Chrominance SECAM System in Video mode	
24	N.YC Delay	0 ~ 8	4	Luminance vs Chrominance NTSC System in Video mode	



Note 1. Beam Control Limit Characteristic

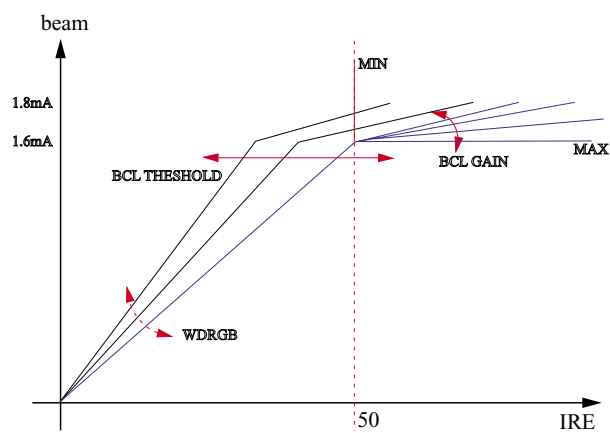


Table 3. YC Delay Adjustment Table

YC Delay	PAL				SECAM				NTSC	
	Def.	BG	DK	I	Def.	BG	DK	I	Def.	M
Value	4	3	6	6	1	3	5	7	4	0

Table 4. Variable Factory Item

ITEM	VDP VERSION = B												REMARK
	14" (SDI)	15"PF (SDI)	21"1.7R (SDI)	21"1.7R (JCT)	21"PF (TSB)	21"PF (LG)	21"PF (SDI)	22"Q (SDI)	25"PF (SDI)	29"1.3R (SDI)	29"2.0R (SDI)	30"Q (SDI)	
V. SC	0	-17	-7	0	-6	-6	13		-13	0			
H.													
SYMMETRY	12	5	5	5	13	13	5		13	13			
BCL Threshold	32	40	40	40	62	55	62		60	62			
BCL Gain	8	8	8	8	8	8	8		8	8			
BCL Time	13	13	13	13	13	13	13		13	13			
B stretch	8	8	8	8	8	2	8			8			
- BTLT		2			2				2				CIS ONLY
B stretch	4	4	4	4	4	6	4			4			
- BAM		6			6				6				
EHT Time	0	0	0	0	0	0	0		0	0			CIS ONLY
VSU	110	110	108	108	108	108	108		108	108			
H.Zoom Parabola	8	8	8	8	8	8	8		-12	-22			
H.16:9 Parabola	-10	-18	-18	-18	-18	-18	-10		0	8			
AKB	ON	ON	ON	ON	ON	ON	ON		ON	OFF			
H Dsc	3	3	3	3	2	2	2		3	2			



ITEM	VDP VERSION = Y												REMARK
	14" (SDI)	15"PF (SDI)	21"1.7R (SDI)	21"1.7R (JCT)	21"PF (TSB)	21"PF (LG)	21"PF (SDI)	22"Q (SDI)	25"PF (SDI)	29"1.3R (SDI)	29"2.0R (SDI)	30"Q (SDI)	
V. SC	0	-17	-7	0	-6	-6			-6	0			
H. SYMMET RY	12	5	5	5	13	13			13	13			
BCL Threshold	32	40	40	40	62	55			62	62			
BCL Gain					9	9			9				
BCL Time					5	5			5				
B stretch - BTLT					8	8			8				CIS ONLY
						2			2				
B stretch - BAM					4	4			4				CIS ONLY
						6			6				
EHT Time					8	8			8				
VSU	110	110	108	108	100	100			100	108			
H.Zoom Parabola	8	8	8	8	8	8			-12	-22			
H.16:9 Parabola	-10	-18	-18	-18	-18	-18			0	8			
AKB	ON	ON	ON	ON	ON	ON			ON	OFF			
H Dsc	3	3	3	3	2	2			3	2			

# Alignment and Adjustments

## 4-8-2(D) VIDEO 2 ADJUST

No.	OSD	Range	Initial Value	Function	Remark
1	B stretch-BTHR	0 ~ 55	50	Black Stretch Threshold	
2	B stretch-BTLT	0 ~ 15	8	Black Stretch Tilt Position	
3	B stretch-BAM	0 ~ 31	4	Black Stretch Amount	
4	Coring <sup>1</sup>	0 ~ 31	31	Luma Peaking Filter Coring	
5	RGB Bright	0 ~ 255	0	External RGB Brightness	
6	RGB Contrast	80	0	External RGB Contrastness	
7	EHT Time	0 ~ 15	0	Electronic High Tension Response Time	
8	EHT Compensation	0 ~ 255	60	EHT Compensation Coefficient	

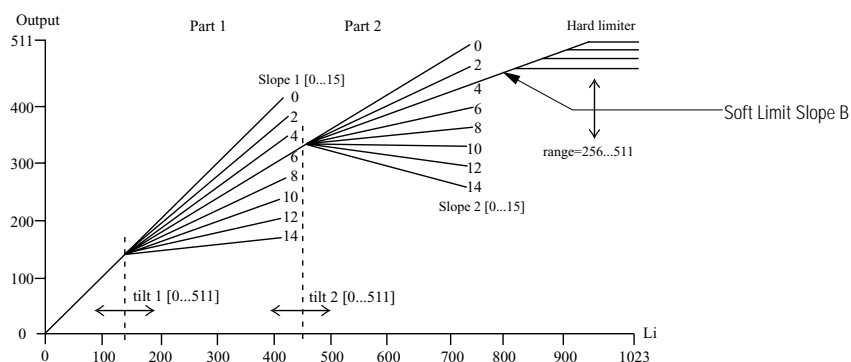
<sup>1</sup> Coring : The Value of Center Frequency for the active bandwidth.

## 4-8-2(E) VIDEO 3 ADJUST

No.	OSD	Range	Initial Value	Function	Remark
1	Peak Threshold	0 ~ 255	255	White Peak Level Threshold	Refer to Note Below
2	Soft Limit Slope B	0 ~ 15	4	Refer to Picture Below	
3	Hard Limit	0 ~ 255	255		
4	Peak Video Ref	0 ~ 4	0	White Peak Level Threshold Reference	
5	Peak Video Gain	0 ~ 5	0	White Peak Level Threshold Gain	
6	ACC-REF(PAL/NTSC)	0 ~ 20	20	PAL/NTSC Color Gain	
7	ACCR(SECAM)	0 ~ 39	21	SECAM Color Gain	
8	Gain 1(Video)	0 ~ 63	11	svm Video model Gain	SIM806EI, SIM806C Only
9	Delay 1(Video)	0 ~ 7	3	svm Video model Delay	
10	Velocity Limit	0 ~ 127	74	svm Limit Value	
11	Velocity Delay	0 ~ 15	7	svm Delay for RGBout	
12	Velocity Coring	0 ~ 15	10	svm Coring	



## Note 2. Soft Limit & Hard Limit Characteristics



“Soft Limit” is that Limiting the peak white without feed-back, but “Peak Limit” is that with feed-back for white peak level



4-8-2(F) OPTION 1

Micom Spec : SIM-806EA

No.	ITEM(OSD)	Control	Description
1	Language	ESAsia	ENGLISH/VIETNAM/THAI/INDONESIA/MALAYSIA
2	Sound	A2/NICAM	A2 Stereo / Nicam Stereo Model
		Virtual Dolby	Virtual Dolby Model
		Mono	Mono Model
		Line-Stereo	Line stereo Model
3	CRT	4:3	Normal / Zoom / 16:9
		Wide	Wide CRT ( 16:9 )
		Q(12.8:9)	Plus / Normal / Zoom / 16:9
		4:3-16:9	Normal / Zoom
		Q - 16:9	Plus / Normal / Zoom
4	AV Mode	1Scart	Built in 1 Scart Model
		2Scart	Built in 2 Scart Model
		2scart+S	Built in 2 Scart +SVHS JACK Model
		1RCA	Built in RCA 6P / RCA 4P Model
		2RCA	Built in RCA 9P Model
		2RCA+S	Built in RCA 9P + SVHS JACK Model
		2RCA+D	Built in RCA 9P + DVD JACK Model
		2RCA+S+D	Built in RCA 9P + SVHS JACK Model + DVD JACK Model
5	x-ray	On	X-ray detection function on
		Off	X-ray detection function off
6	Tilt Control	On	CRT Tilt control function on ( wide / 29PF CRT)
		Off	CRT Tilt control function off
7	Auto FM	On	automatic change from NICAM to FM depends on NICAM error rate
		Off	automatic change from NICAM to FM depends on NICAM synchronization
8	PIP	Off	no PIP function
		1 - tuner	1 Tuner PIP function
		2 - tuner	2 Tuner PIP function
9	Txt Language	West Europe	English/German/Skandinavian/Italian French/Spainsh/Czech
		East Europe	Polish/Czech/Rumanian/Slovenian/Croatian/ French/Skandinavian/German/Italian
		Russian	Russian/Ukranian/Estonian/Czech/German/ Lettish/English
		Greek-Turkey	English/Turkey/Greek/French/Skandinavian/German/Spainsh/Italian
		Arabic	English/Arabic/French
		Farsi	English/Farsi/French
		Arab-Hebrew	Arabic/Hebrew
10	LNA	On	Built in LNA Tuner
		Off	Built in Normal Tuner
11	Equalizer	On	Include in Equalizer function ( MSP34X0D)
		Off	Without Equalizer function (MSP34X5D)
12	High deviate	On	High deviation mode on MSP34XX
		Off	Normal mode on MSP34XX
13	TTX On/Off	On	TTX Model
		Off	W/O - TTX Model



4-8-2(G) OPTION 2

Micom Spec : SIM-806MA

No.	ITEM(OSD)	Control	Description
1	Language	Arab	English/Arab/French/Pakistan
		Iran	English/Persian/French/Turkey
		Libya	English/Libya/French
		CIS	English/Russia
2	Sound	A2/NICAM	A2 Stereo / Nicam Stereo Model
		Virtual Dolby	Virtual Dolby Model
		Mono	Mono Model
		Line-Stereo	Line stereo Model
3	CRT	4:3	Normal / Zoom / 16:9
		Wide	Wide CRT ( 16:9 )
		Q(12.8:9)	Plus / Normal / Zoom / 16:9
		4:3-16:9	Normal / Zoom
		Q - 16:9	Plus / Normal / Zoom
4	AV Mode	1Scart	Built in 1 Scart Model
		2Scart	Built in 2 Scart Model
		2scart+S	Built in 2 Scart +SVHS JACK Model
		1RCA	Built in RCA 6P / RCA 4P Model
		2RCA	Built in RCA 9P Model
		2RCA+S	Built in RCA 9P + SVHS JACK Model
		2RCA+D	Built in RCA 9P + DVD JACK Model
		2RCA+S+D	Built in RCA 9P + SVHS JACK Model + DVD JACK Model
5	x-ray	On	X-ray detection function on
		Off	X-ray detection function off
6	Tilt Control	On	CRT Tilt control function on ( wide / 29PF CRT)
		Off	CRT Tilt control function off
7	Auto FM	On	automatic change from NICAM to FM depends on NICAM error rate
		Off	automatic change from NICAM to FM depends on NICAM synchronization
8	PIP	Off	no PIP function
		1 - tuner	1 Tuner PIP function
		2 - tuner	2 Tuner PIP function
9	Txt Language	West Europe	English/German/Skandinavian/Italian/French/Spainsh/Czech
		East Europe	Polish/Czech/Rumanian/Slovenian/Croatian/ French/Skandinavian/German/Italian
		Russian	Russian/Ukranian/Estonian/Czech/German/Lettish/English
		Greek-Turkey	English/Turkey/Greek/French/Skandinavian/German/Spainsh/Italian
		Arabic	English/Arabic/French
		Farsi	English/Farsi/French
		Arab-Hebrew	Arabic/Hebrew
10	LNA	On	Built in LNA Tuner
		Off	Built in Normal Tuner
11	Equalizer	On	Include in Equalizer function ( MSP34X0D)
		Off	Without Equalizer function (MSP34X5D)
12	High deviate	On	High deviation mode on MSP34XX
		Off	Normal mode on MSP34XX
13	TTX On/Off	On	TTX Model
		Off	W/O - TTX Model



**Micom Spec : SIM-806EI/SIM-806C**

No.	ITEM(OSD)	Control	Description
1	SOUND	A2/NICAM	A2 Stereo / Nicam Stereo Model
		Virtual Dolby	Virtual Dolby Model
		Mono	Mono Model
		Line-Stereo	Line stereo Model
2	CRT	4:3	Normal / Zoom / 16:9
		Wide	Wide CRT ( 16:9 )
		Q(12.8:9)	Plus / Normal / Zoom / 16:9
		4:3-16:9	Normal / Zoom
		Q - 16:9	Plus / Normal / Zoom
3	A/V Mode	1Scart	Built in 1 Scart Model
		2Scart	Built in 2 Scart Model
		2scart+S	Built in 2 Scart +SVHS JACK Model
		1RCA	Built in RCA 6P / RCA 4P Model
		2RCA	Built in RCA 9P Model
		2RCA+S	Built in RCA 9P + SVHS JACK Model
		2RCA+D	Built in RCA 9P + DVD JACK Model
		2RCA+S+D	Built in RCA 9P + SVHS JACK Model + DVD JACK Model
4	x-ray	On	X-ray detection function on
		Off	X-ray detection function off
5	Tilt Control	On	CRT Tilt control function on ( wide / 29PF CRT)
		Off	CRT Tilt control function off
6	Auto FM	On	automatic change from NICAM to FM depends on NICAM error rate
		Off	automatic change from NICAM to FM depends on NICAM synchronization
7	PIP	Off	no PIP function
		1 - tuner	1 Tuner PIP function
		2 - tuner	2 Tuner PIP function
8	LNA	On	Built in LNA Tuner
		Off	Built in Normal Tuner
9	Equalizer	On	Include in Equalizer function ( MSP34X0D)
		Off	Without Equalizer function (MSP34X5D)
10	High deviate	On	High deviation mode on MSP34XX
		Off	Normal mode on MSP34XX
11	AKB	On	AKB Function On
		Off	AKB Function Off
12	AV by CH Key	On	Without Video Pannel Key
		Off	With Video Pannel Key



4-8-2(I) G2 - ADJUSTMENT

No.	ITEM(OSD)	Control	Description	Initial Value
1	MRCR G B	No Control	Measure of Cutoff Gain	110 110 110
2	MRWDG	No Control	Measure of Green Drive Gain	110
3	IBRM	0 ~ 255	Internal Brightness offset value by Read Measurement	220 Refer to Screen adjust table
4	WDRV	0 ~ 255	White Drive Value	35
5	CDL	0 ~ 255	Cathode Drive Level	180
6	COLR G B	0 ~ 255	Cathode Cutoff Level	65 70 75

4-8-2(J) OTHERS

No.	ITEM(OSD)	Control	Description	Initial Value
1	VSU	96 ~ 111	Vertical Setup Time (Large Value time)	108
2	H QEWF	-30 ~ 30	Horizontal EW data offset to plus screen	0
3	H Zoom Parabola	-15 ~ 15	Horizontal Parabola offset to zoom screen	8
4	H 16:9 Parabola	-15 ~ 15	Horizontal Parabola offset to 16:9 screen	-18
5	TTX Position	-30 ~ 30	Horizontal shift in TTX Mode	0
6	Mono Sound System	BG	Initial Sound System of Mono Model	BG
		DK		
		I		
		M		
7	V Slice level	0 ~ 3	Vertical Sync Slice level Setting	2
8	Melody Volume	0 ~ 20	Melody Sound Volume level Setting	5
9	AKB	On/Off	AKB Function On/Off	On
10	TTX List Prior	On/Off	TTX List Mode Priority is higher than FLOF Mode when TTX Mode	Off (SIM806EA Only)

Table 5.

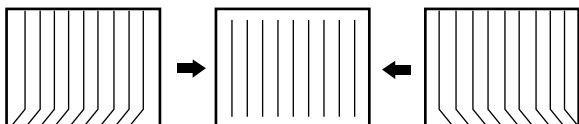
VDP Version		Remark
OSD	Description	
B	Chroma IC is VDP3108B	Normal Version IC
Y	Chroma IC is VDP3130Y	DVD Version IC



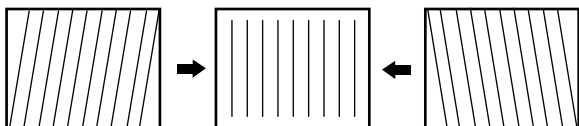
Table 6.

No.	Y-ADD				Remark
	ITEM(OSD)	Control	Initial Value	Description	
1	H BOW	-128 ~ 127	0	Horizontal Bow control	VDP Version is "Y" Only
2	H ANGLE	-128 ~ 127	0	Horizontal Angle control	
3	H Dsc	1 ~ 7	2	H Dsc	
4	DVD Tint Contro	0 ~ 1	1	Positive or Negative Tint control value	
5	DVD Subtint	0 ~ 100	25	Subtint value in DVD Mode	
6	EHT Offset	0 ~ 535	0	Electronic High Tension Offset coefficient	
7	EHT Horizontal	-128 ~ 127	0	Electronic High Tension Horizontal coefficient	

① H-BOW



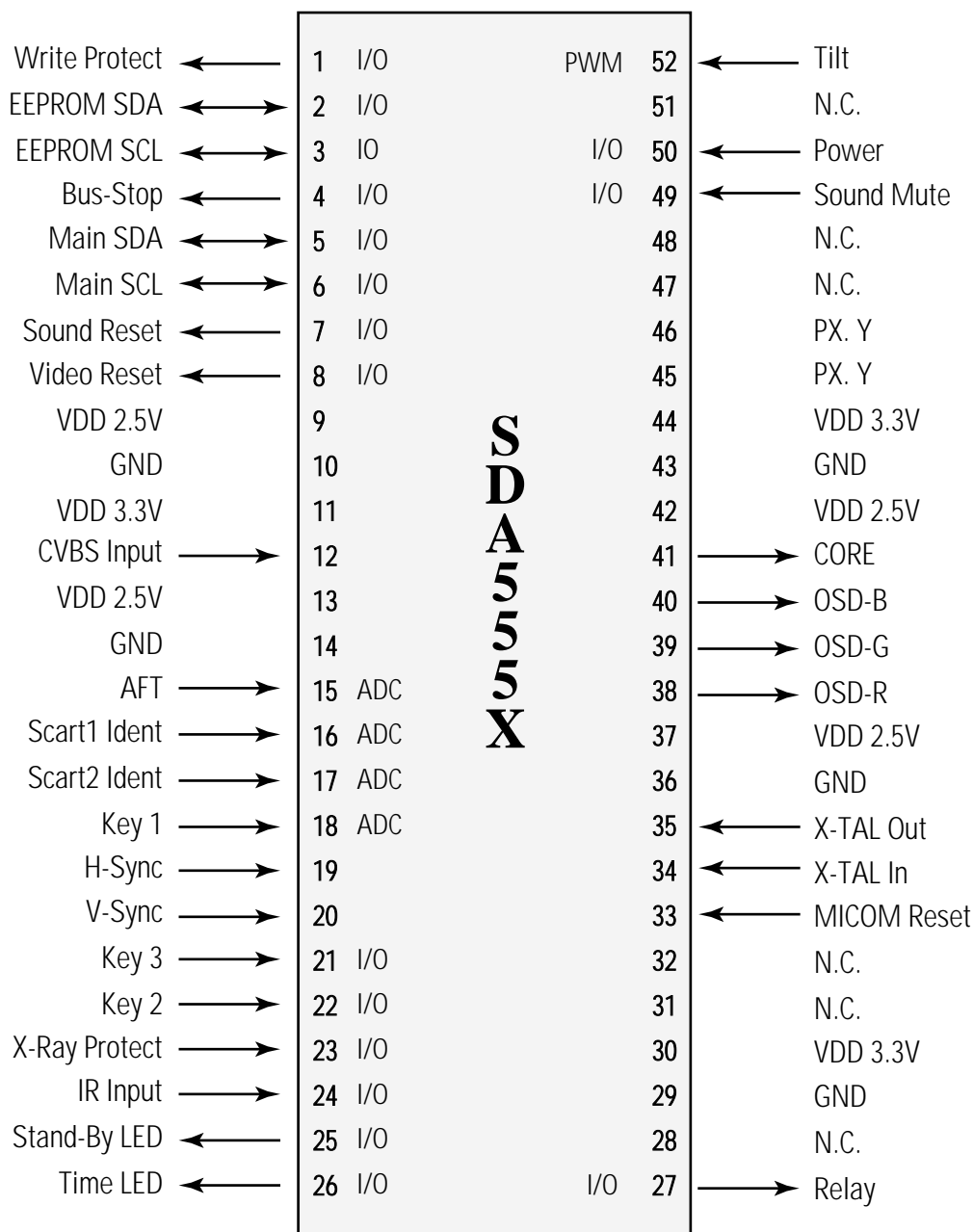
② H-ANGLE





## 4-9 MICOM

### 4-9-1 Pin Layout



## 4-9-2 Pin Assignment Specification

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
1	I/O	Write Protect	Out	Low	EEPROM Write Protection
2	I/O	ROM SDA	I/O		EEPROM Serial Data Line
3	I/O	ROM SCL	I/O		EEPROM Serial Clock Line
4	I/O	Bus Stop	In	Low	Disable Micom IIC
5	I/O	Main SDA	I/O		Peripheral IC Serial Data Line
6	I/O	Main SCL	I/O	Low	Peripheral IC Serial Clock Line
7	I/O	Sound Reset	Out	Low	MSP IC Initial Control
8	I/O	Video Reset	Out		VDP IC Initial Control
9	Vdd	VDD 2.5V			
10	GND				
11	Vdd	VDD 3.3V			
12	CVBS	CVBS Input	In		TTX CVBS Input
13	Vdd	VDD 2.5V			Analog B+
14	GND				Analog Ground
15	ADC	AFT	In		Auto Fine Tuning Control
16	ADC	SC1-ID	In		Scart1 Ident
17	ADC	SC2-ID	In		Scart2 Ident
18	ADC	Key1	In		Key1 Input
19	HS	H-Sync	In		Horizontal Sync Input
20	VS	V-Sync	In		Vertical Sync Input
21	I/O	Key3	In		Key3 Input
22	I/O	Key2	In		Key2 Input
23	I/O	X-Ray	In		X-Ray Protection
24	I/O	IR-In	In		Remocon Signal Input
25	I/O	STD-LED	Out		LED Drive Output(Red)
26	I/O	TIM-LED	Out		LED Drive Output(Green)



#### 4-9-2 Pin Assignment Specification (Continued)

PIN NO	FUNCTION	ASSIGN	IN/OUT	ACTIVE H/L	DESCRIPTION
27	I/O	Relay	Out	Low	Activate Degaussing Coil
28	N.C.				Not Used (Programmed Gound Level)
29	GND				Analog Ground
30	Vdd	VDD 3.3V			Not Used (Programmed Gound Level)
31	N.C.				Not Used (Programmed Gound Level)
32	N.C.				Micom Hardware Reset
33	Reset	Reset	In	Low	Crystal Oscillation Input
34	X-In	X-TAL In	In	6MHz	Crystal Oscillation Output
35	X-Out	X-TAL Out	Out	6MHz	Analog Ground
36	GND				Analog B+
37	Vdd	VDD 2.5V			OSD/TTX Output (Red)
38	R	OSD-R	Out		OSD/TTX Output (Green)
39	G	OSD-G	Out		OSD/TTX Output (Blue)
40	B	OSD-B	Out		Fast Blank/Half Contrast Output
41	COR	CORE	Out		
42	Vdd	VDD 2.5V			
43	GND				
44	Vdd	VDD 3.3V			
45	I/O	PX.Y	In		When The Caption Function Adopted, Used.
46	I/O	PX.Y	Out		
47	N.C.				Not Used (Programmed Gound Level)
48	N.C.				
49	I/O	S-Mute	Out	High	Sound Amp Mute
50	I/O	Power	Out	Low	Picture On/Off Control
51	N.C.				Not Used (Programmed Gound Level)
52	I/O				

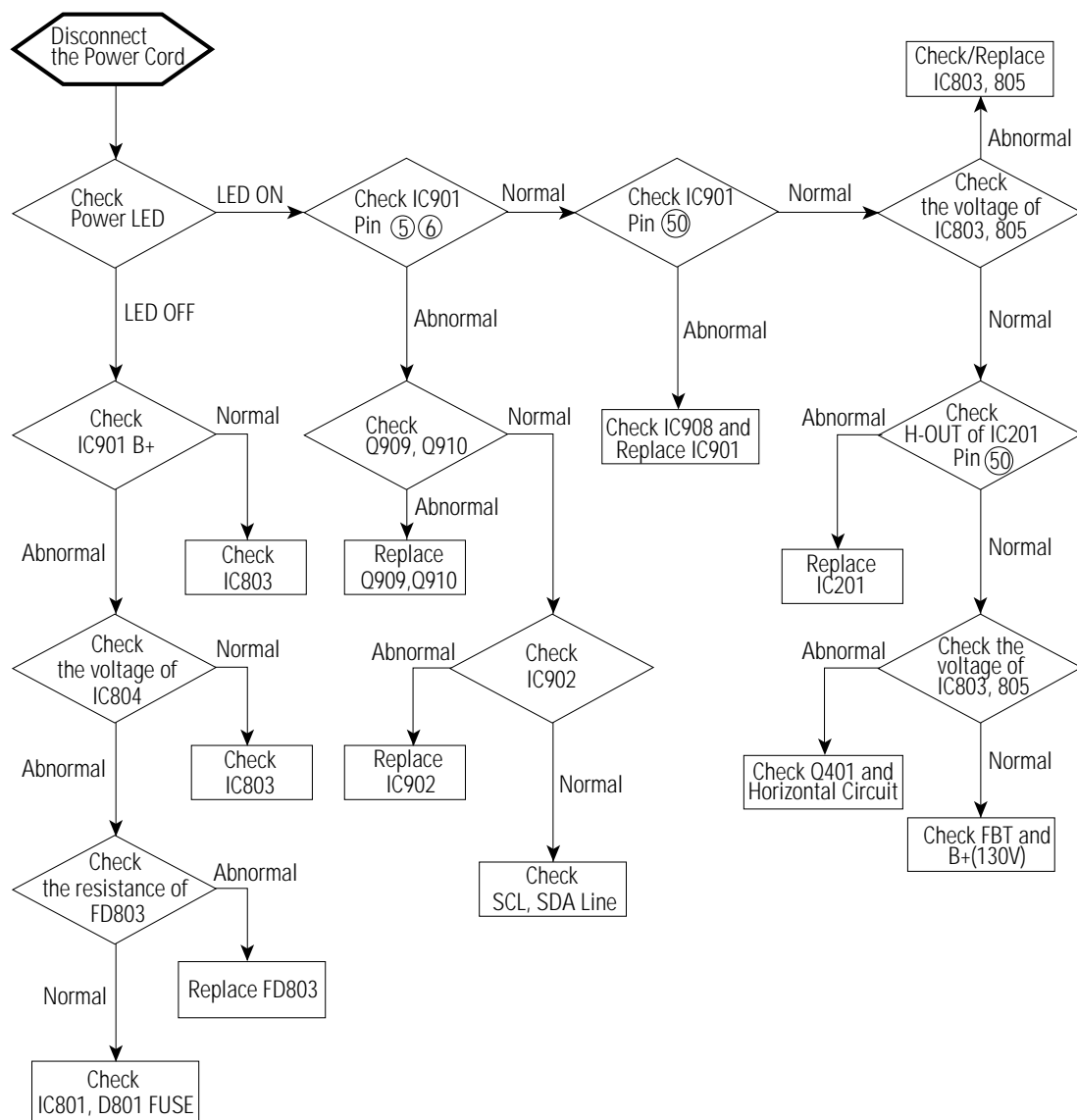


# MEMO

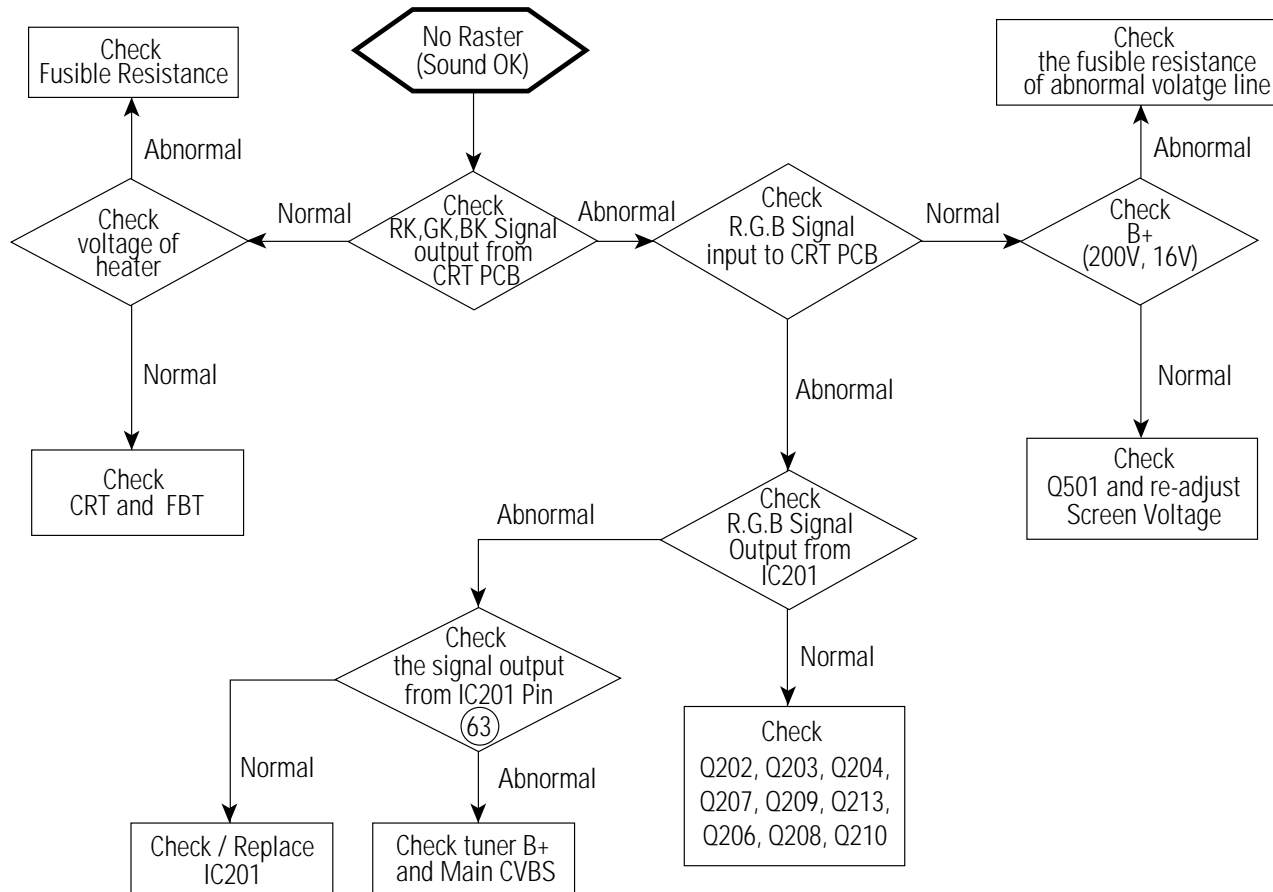


## 5. Troubleshooting

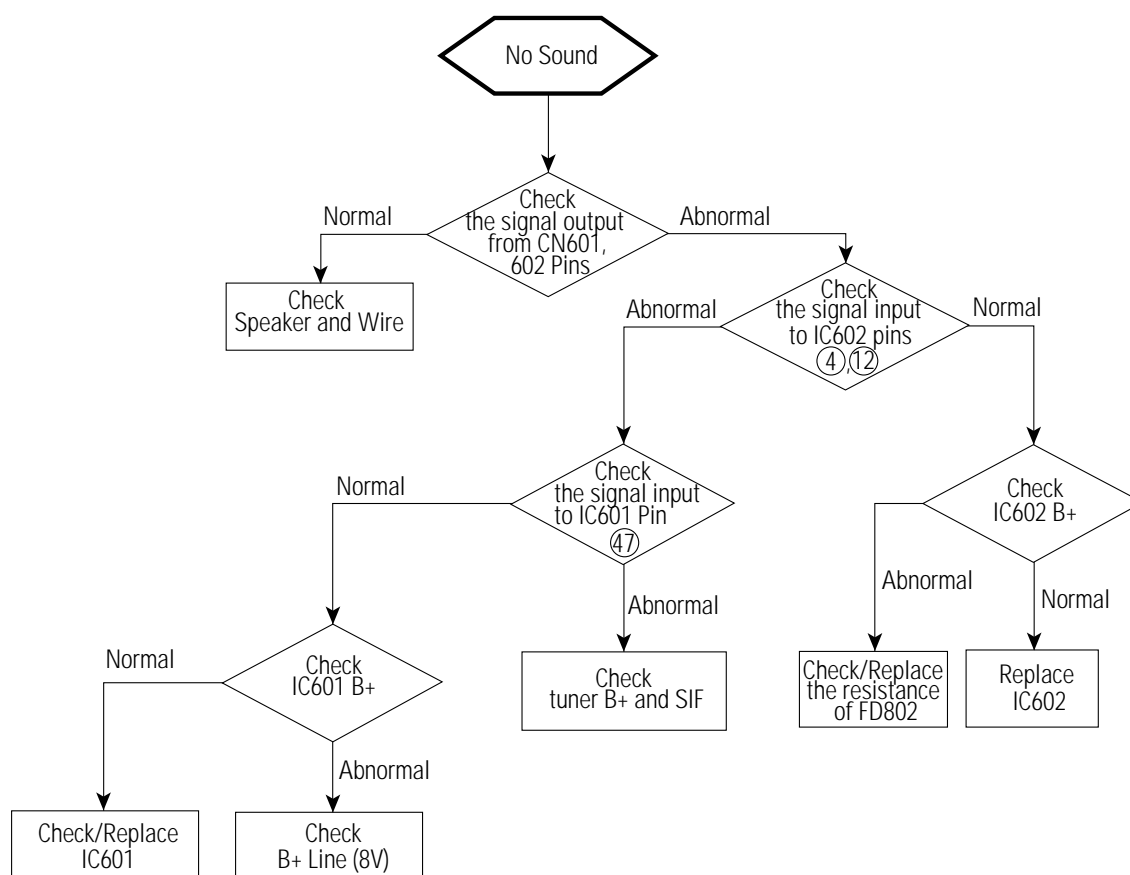
### 5-1 No Power



## 5-2 No Raster (Sound OK)

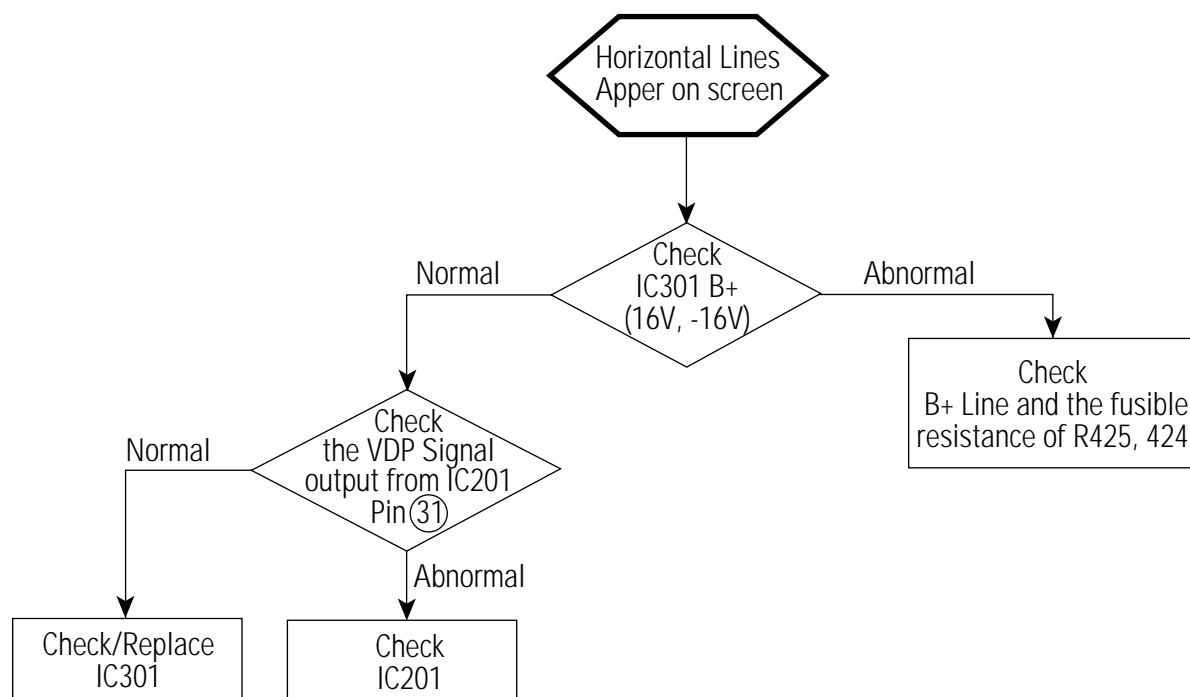


### 5-3 No Sound



## 5-4 Horizontal Lines Appear on screen

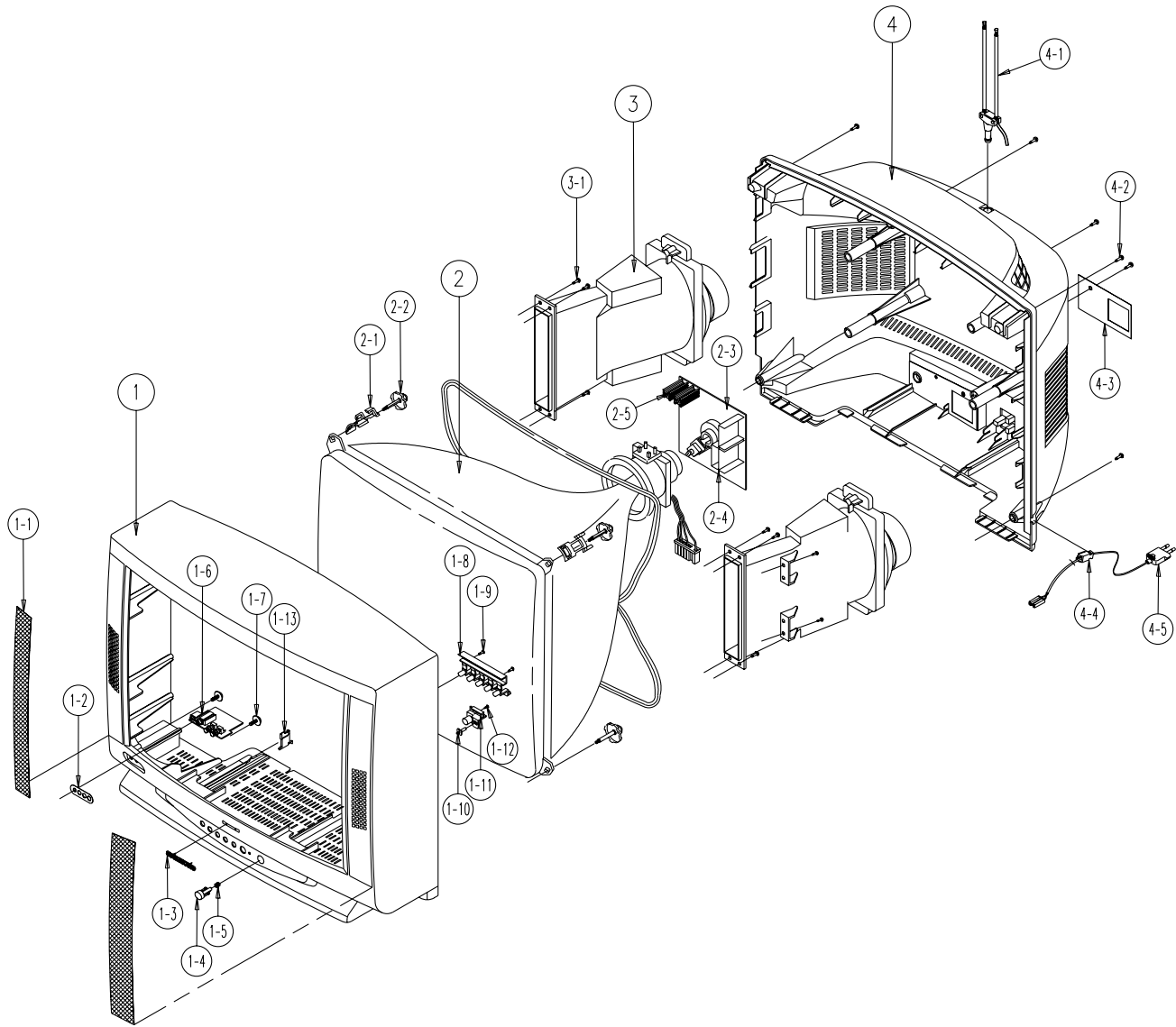
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6. Exploded View & Parts List

6-1 CS2551SX/XTT



No	Code No	Description	Specification	Q'ty	Remark
1	AA90-00704A	ASSY CABINET FRONT;-	CS2551S	1	
	AA64-30951B	CABINET-FRONT;-	2551,-,HIPS,-,BLK,3,-	1	
1-1	AA63-00188B	GRILLE SHEET;CS2551N,PI0.5,PS,T0.4,SV-012P,		2	
1-2		ASSY-CHASSIS OPTION			
1-3	AA64-70117B	BADGE-BRAND;AL,SS,SILVER,L65,R2000,-,-		1	
1-4	AA64-01645A	KNOB POWER;CS2551N,ABS,-,SV-012P,-,HB,-,-		1	
1-5	AA61-00479E	SPRING-CS;OCR18NI9.0.5,N6,OD10,H18		1	
1-6		ASSY-CHASSIS OPTION			
1-7		ASSY-CHASSIS OPTION			
1-8	AA64-01646A	KNOB CONTROL;CS2551N,ABS,-,SV-012P,-,HB,-,-		1	
1-9	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWRCH18		2	
1-10	AA64-40368A	INDICATOR-LED;-	6251,-,ACRYL,-,CLEAR,-	1	
1-11	AA64-40369A	WINDOW-REMOCON;-	6251,LG41338,ABS,HB,-,-	1	
1-12	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWRCH18		1	
1-13	AA61-40007A	STOPPER-PCB;5038.5368,ABS HB,NTR,-,-,-		1	
2	AA03-00219A	CRT COLOR;A59KPR84X01,25,523.8X411.0,-,-		1	
2-1	AA65-30113A	CLAMP-D,COIL;NYLON 66,V2,BLK,TVI 25~29,-,-		4	
2-2	AA60-10050Q	SCREW-ASSY;WC,HH,+,M5,L26.5,SWRCH18A,ZPC(		4	
2-3	3704-001105	SOCKET-CRT;11P,20PI,26.5PI,NI,-		1	
2-4		ASSY-CHASSIS OPTION			
2-5		ASSY-CHASSIS OPTION			
3	AA96-00598A	ASSY SPEAKER;-	80HM,10W,-,-	1	
3-1	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWRCH18		12	
4	AA64-30950B	CABINET BACK;CS2551N,HIPS,-,-,-,V0,BLK,-		1	
4-1		ASSY-ACCESSORY OPTION			
4-2	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK),SWRCH18		7	
4-3	AA64-00892T	INLAY BACK;D2,D3 CHINA,PS SHEET,T0.3,-,BL		1	
4-4	AA61-00632A	HOLDER;-	NYLON,BLK,V2,-,-	1	
4-5	AA39-00096B	POWER CORD;-	RVVZ-2P,RVVB 2X0.75,2400,-,C	1	

7. Electrical Parts List

7-1 CS2551SX/XTT

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
ASSY PCB MAIN(COM)							
0.1 *	AA94-03346A	ASSY PCB MAIN(COM);KS2A,25,PAL,-		.2 C417	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 BOT	2301-000213	C-FILM,PEF;220nF,5%,250V,TP,21.5x11.7,5		.2 C418	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5	
.2 C102	2401-002463	C-AL;470uF,20%,16V,GP,TP,8x11.5,5		.2 C419	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C103	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm		.2 C420	2301-001065	C-FILM,MPPF;47nF,5%,630V,TP,19x15.5x7,7.5	
.2 C104	2401-000142	C-AL;1000uF,20%,16V,WT,TP,10x20,5		.2 C421	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5	
.2 C105	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm		.2 C422	2401-001527	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m	
.2 C106	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11,5		.2 C424	2201-000132	C-CERAMIC,DISC;100pF,10%,500V,Y5P,TP,6x4,5	
.2 C115	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-		.2 C427	2401-002267	C-AL;2.2uF,20%,250V,GP,TP,8x11.5,5	
.2 C116	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-		.2 C429	2301-000232	C-FILM,PEF;3.3nF,5%,50V,TP,8.1x4.5x13mm,5	
.2 C201	2401-000553	C-AL;1uF,10%,50V,GP,TP,5x11,5		.2 C501	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.9x3.5,-	
.2 C202	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm		.2 C502	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.9x3.5,-	
.2 C203	2401-002594	C-AL;220uF,20%,16V,GP,TP,8x11.5,5		.2 C503	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.9x3.5,-	
.2 C206	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C504	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C208	2202-000203	C-CERAMIC,MLC-AXIAL;39pF,5%,50V,SL,TP,1.9x3.5,-		.2 C505	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C211	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-		.2 C506	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C212	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm,5m		.2 C507	2401-002267	C-AL;2.2uF,20%,250V,GP,TP,8x11.5,5	
.2 C213	2301-000310	C-FILM,PEF;68nF,5%,50V,TP,8.0X8.5X4.0X5,5		.2 C508	2305-000704	C-FILM,MPEF;100nF,5%,250V,TP,16.5x10.3x5.7	
.2 C214	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,		.2 C509	2201-000723	C-CERAMIC,DISC;4.7nF,20%,3KV,Y5U,TP,16x5,10	
.2 C215	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm		.2 C510	2401-001232	C-AL;4.7uF,20%,250V,GP,TP,10x12.5,5	
.2 C216	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,		.2 C511	2305-000704	C-FILM,MPEF;100nF,5%,250V,TP,16.5x10.3x5.7	
.2 C217	2401-001026	C-AL;3.3UF,20%,50V,GP,TP,5X11,5		.2 C512	2401-001363	C-AL;470uF,20%,16V,GP,TP,10x12.5,5	
.2 C218	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C605	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C219	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C607	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C220	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C608	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C224	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3mm,5m		.2 C610	2301-000314	C-FILM,PEF;8.2nF,5%,50V,TP,6.5x3.0x5.5mm,	
.2 C225	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3mm,5m		.2 C611	2301-000314	C-FILM,PEF;8.2nF,5%,50V,TP,6.5x3.0x5.5mm,	
.2 C226	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C612	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
.2 C228	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm		.2 C613	2401-001914	C-AL;1uF,20%,50V,BP,TP,5x11,5	
.2 C229	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm		.2 C617	2401-000493	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm	
.2 C230	2401-000493	C-AL;10uF,20%,50V,LZ,TP,5x11mm,5mm		.2 C620	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C231	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm		.2 C621	2401-001998	C-AL;1000uF,20%,25V,GP,TP,10x20,5mm	
.2 C232	2202-000632	C-CERAMIC,MLC-AXIAL;100nF,20%,50V,Z5U,TP,2.5x4.3,-		.2 C626	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
.2 C233	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		.2 C627	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
.2 C234	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		.2 C628	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
.2 C235	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		.2 C629	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
.2 C236	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm		.2 C630	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
.2 C237	2401-000914	C-AL;22uF,20%,16V,GP,TP,5x11,5		.2 C631	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
.2 C239	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11,5		.2 C632	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
.2 C242	2301-000310	C-FILM,PEF;68nF,5%,50V,TP,8.0X8.5X4.0X5,5		.2 C634	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
.2 C243	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-		.2 C635	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C244	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-		.2 C636	2401-001026	C-AL;3.3UF,20%,50V,GP,TP,5X11,5	
.2 C245	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,1.9x3.5,-		.2 C637	2401-000027	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
.2 C248	2401-002619	C-AL;47uF,20%,25V,GP,TP,5x11,5		.2 C640	2401-000027	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
.2 C250	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5		.2 C641	2401-000027	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
.2 C301	2401-000603	C-AL;1uF,20%,50V,GP,TP,5x11,5		.2 C642	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
.2 C302	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5		.2 C643	2401-000027	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
.2 C303	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3mm,5m		.2 C644	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
.2 C304	2305-000285	C-FILM,MPEF;220nF,5%,100V,TP,10.5X5.5X15MM		.2 C645	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
.2 C305	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5,5		.2 C646	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C306	2301-000342	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,5		.2 C647	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.9x3.5,-	
.2 C307	2401-000360	C-AL;100uF,20%,50V,GP,TP,8x11.5,5		.2 C650	2201-000558	C-CERAMIC,DISC;470pF,10%,50V,Y5P,TP,5x3,5	
.2 C308	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,		.2 C652	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
.2 C401	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5		.2 C654	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.9x3.5,-	
.2 C402	2401-001397	C-AL;470uF,20%,25V,GP,TP,10x16,5		.2 C656	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NPO,TP,4x3.	
.2 C403	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4,5		.2 C657	2201-000304	C-CERAMIC,DISC;0.001nF,0.25pF,50V,NPO,TP,4x3.	
.2 C404	2401-001397	C-AL;470uF,20%,25V,GP,TP,10x16,5		.2 C660	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5	
.2 C407	2301-001338	C-FILM,MPE-PPF;0.68nF,5%,1.6kV,TP,28x7x11mm,2		.2 C803	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
.2 C408	2305-000382	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5mm		.2 C804	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7,7	
.2 C411	2301-000104	C-FILM,PEF;1.2nF,5%,50V,TP,6.5x3.0x5.5mm,		.2 C805	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,11x7,7	
.2 C412	2301-000188	C-FILM,PEF;1nF,5%,100V,TP,10.5x12.5x6.5,5		.2 C805	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C414	2401-002597	C-AL;220uF,20%,35V,GP,TP,10x12.5,5		.2 C806	2401-002227	C-AL;330uF,20%,450V,GP,BK,35x45,10	
.2 C415	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5		.2 C807	2301-001435	C-FILM,PPF;1.5nF,5%,1.2kV,TP,15x8x12.5mm,	
.2 C416	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5		.2 C808	2401-002300	C-AL;47uF,20%,50V,GP,TP,6.3x11,5	
				.2 C809	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
				.2 C811	2301-000356	C-FILM,PEF;47nF,5%,50V,TP,7.5x4.0x6.5,5mm	
				.2 C814	2201-000991	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7,7.5	
				.2 C815	2401-003026	C-AL;330uF,20%,200V,GP,ST,22x35,10	



Loc. No.	Code No.	Description ; Specification	Remark
.2 C816	2401-000262	C-AL:100uF,20%,160V,HR,TP,16x25,7.5	
.2 C817	2201-000599	C-CERAMIC,DISC:560pF,10%,500V,Y5P,TP,7x4,5	
.2 C818	2401-000722	C-AL:2200uF,20%,25V,WT,TP,16x25,7.5	
.2 C819	2201-000599	C-CERAMIC,DISC:560pF,10%,500V,Y5P,TP,7x4,5	
.2 C820	2401-001054	C-AL:3300uF,20%,25V,GP,TP,18x25,7.5	
.2 C821	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
.2 C822	2201-000599	C-CERAMIC,DISC:560pF,10%,500V,Y5P,TP,7x4,5	
.2 C823	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C826	2401-001363	C-AL:470uF,20%,16V,GP,TP,10x12.5,5	
.2 C827	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm	
.2 C829	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C831	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C832	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
.2 C835	2401-003139	C-AL:1000uF,20%,25V,WT,TP,10*20,5mm	
.2 C837	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C838	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
.2 C839	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C840	2401-002235	C-AL:10uF,20%,16V,GP,TP,5x11mm,5mm	
.2 C841	2401-000611	C-AL:1uF,20%,50V,WT,TP,5x11,5	
.2 C843	2201-000374	C-CERAMIC,DISC:220pF,5%,50V,CH,TP,12.5x3,5	
.2 C901	2202-000632	C-CERAMIC,MLC-AXIAL:100nF,20%,50V,Z5U,TP,2.5x4.3,-	
.2 C902	2401-000553	C-AL:1uF,10%,50V,GP,TP,5x11,5	
.2 C904	2401-000302	C-AL:100uF,20%,25V,GP,TP,6.3x11,5	
.2 C905	2202-000796	C-CERAMIC,MLC-AXIAL:1nF,10%,50V,Y5P,TP,3.5X1.9MM,-	
.2 C907	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C908	2202-000863	C-CERAMIC,MLC-AXIAL:560pF,10%,50V,Y5P,TP,3.5x19mm,	
.2 C910	2201-000980	C-CERAMIC,DISC:30pF,5%,50V,CH,TP,5.0x3.0,5mm	
.2 C911	2201-000980	C-CERAMIC,DISC:30pF,5%,50V,CH,TP,5.0x3.0,5mm	
.2 C913	2401-000287	C-AL:100uF,20%,16V,WT,TP,6.3x11,5	
.2 C914	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C915	2401-000287	C-AL:100uF,20%,16V,WT,TP,6.3x11,5	
.2 C916	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C917	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
.2 C918	2401-001840	C-AL:100uF,20%,16V,GP,TP,6.3x11,5	
.2 C919	2305-000665	C-FILM,MPEF:100nF,5%,63V,TP,7.5x4.0x5.0mm,	
.2 C920	2401-000480	C-AL:10uF,20%,50V,GP,TP,5x11,5	
.2 C921	2202-000632	C-CERAMIC,MLC-AXIAL:100nF,20%,50V,Z5U,TP,2.5x4.3,-	
.2 C960	2202-000632	C-CERAMIC,MLC-AXIAL:100nF,20%,50V,Z5U,TP,2.5x4.3,-	
.2 CG501	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000MOHM	
.2 CG502	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000MOHM	
.2 CG503	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000MOHM	
.2 CG504	AA27-00084A	COIL:S-23,-,-,-,-,-,S-23,5000MOHM	
.2 CN501B	AA39-20054B	LEAD CONNECTOR-ASSY:-,YBNH025-06,S,6P,500,1007#26	
.2 CN502B	AA39-20053A	LEAD CONNECTOR-ASSY:-,YBNH025-05,S,5P,400,1007#26	
.2 CN601	3711-002643	CONNECTOR-HEADER:BOX,4P,1R,2.5mm,STRAIGHT,SN	
.2 CR401S	2306-000322	C-FILM,MPPF:12nF,5%,1.6KV,TP,29x20.5x13,20	
.2 CR402S	2301-001487	C-FILM,MPPF:9.1nF,5%,1.6KV,BK,29*6.5*10,20	
.2 CR403S	2301-001258	C-FILM,PPF:39nF,5%,400V,TP,19.5x9x15,7.5	
.2 CR404S	2301-001420	C-FILM,MPPF:120nF,5%,400V,BK,31x16.5x22.5	
.2 CR405S	2301-001192	C-FILM,MPPF:820nF,5%,400V,TP,29x18.5x25.5	
.2 CW901	2503-000156	C-NETWORK:100pF,20%,50V	
.2 CX801S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm	
.2 CX802S	2306-000318	C-FILM,MPPF:220nF,20%,250V,TP,-,22.5mm	
.2 CY802S	2201-000446	C-CERAMIC,DISC:3.3nF,20%,400V,Y5U,TP,18x8,10m	
.2 D201	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D202	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D203	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D204	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D205	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D206	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D207	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D208	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D209	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D210	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D212	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D301	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,TP	
.2 D401	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
.2 D402	0402-000540	DIODE-RECTIFIER:RU20A,600V,1.5A,-,TP	
.2 D403	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D404	0402-000534	DIODE-RECTIFIER:RG10V,400V,1.2A,DO-201,TP	
.2 D406	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D407	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L,TP	
.2 D408	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,TP	
.2 D410	0402-000493	DIODE-RECTIFIER:1R5GU41,400V,1.5A,DO-15L,TP	
.2 D411	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,TP	
.2 D413	0402-000537	DIODE-RECTIFIER:RH1A,600V,0.6A,DO-204AC	
.2 D501	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	

Loc. No.	Code No.	Description ; Specification	Remark
.2 D502	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D503	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D504	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D505	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 D506	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 D507	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 D508	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D602	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D603	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D801	0402-001111	DIODE-RECTIFIER:1N5397GP,600V,1.5A,DO-204AC,TP	
.2 D801S	0402-001160	DIODE-BRIDGE:D5SB60,600V,2.8A,SIP-4,ST	
.2 D803	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,TP	
.2 D804	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D808	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D810	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D811	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D813	0402-000233	DIODE-RECTIFIER:FML-G12S,200V,5A,-,-	
.2 D816	0402-000546	DIODE-RECTIFIER:TVR10G,400V,1.0A,DO-41,TP	
.2 D901	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D902	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D903	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D904	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D905	0404-000156	DIODE-SCHOTTKY:RB441Q,10V,100mA,DO-34,TP	
.2 D906	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 D907	0402-000132	DIODE-RECTIFIER:1N4004,400V,1A,DO-41,TP	
.2 D908	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 DDR01	AA96-00497A	ASSY H/S:REGULATOR,AA62-00053B,D10U60S(	
.3 DDR01	AA62-00053B	HEAT SINK:DREAM (D2,D3),AL ,T1,0,147,50,	
.3 DDR01	0402-001358	DIODE-RECTIFIER:FFPF10U60S,600V,10A,TO-220F,ST	
.3 DDR01	0402-001375	DIODE-RECTIFIER:FFPF10U20S,200V,10A,TO-220F,ST	
.3 DDR01	1203-002018	IC-VOLTAGE REGULATOR:78R05,TO-220,4P,10MIL,PLASTIC,	
.3 DDR01	6003-000334	SCREW-TAPTITE:RH,+,2S,M3,L6,ZPC(YEL),SWRCH18	
.2 DH01	AA96-00275A	ASSY H/S:-,COMPLEX,AA62-00051A,KSD5703,	
.3 DH01	AA60-30001A	WASHER-PLATE:M3,ID3.5,15X8.5,T1.0,-,SBHG,-	
.3 DH01	AA62-00051A	HEAT SINK-PS:-,-,-,SILVER,HOLE 31mm,ALL,MOD	
.3 DH01	0205-000129	GREASE-SILICON:SC102,JAPAN	
.3 DH01	0402-001296	DIODE-RECTIFIER:FMP-3FU,1.5KV,5A,TO-3PF,ST	
.3 DH01	0502-001136	TR-POWER:KSD5703,NPN,70W,TO-3PF,ST,8-	
.3 DH01	6003-000333	SCREW-TAPTITE:RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	
.2 DZ201	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ202	0403-001321	DIODE-ZENER:MTZJ6.8C,6.66-7.01V,500MW,DO-3	
.2 DZ203	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ204	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ301	0403-001328	DIODE-ZENER:MTZJ22A,20.15-21.20V,500MW,DO-	
.2 DZ302	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77,500MW,DO-3	
.2 DZ303	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77,500MW,DO-3	
.2 DZ304	0403-001329	DIODE-ZENER:MTZJ24B,22.61-23.77,500MW,DO-3	
.2 DZ305	0403-001221	DIODE-ZENER:UZ39BSB,35.36-37.19V,500MW,DO-	
.2 DZ306	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,TP	
.2 DZ401	0403-001325	DIODE-ZENER:MTZJ15C,14.35-15.09V,500MW,DO-	
.2 DZ402	0401-000005	DIODE-SWITCHING:1N4148,100V,200MA,DO-35,TP	
.2 DZ501	0403-001325	DIODE-ZENER:MTZJ15C,14.35-15.09V,500MW,DO-	
.2 DZ601	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ602	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ603	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500MW	
.2 DZ701	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500MW	
.2 DZ702	0403-000720	DIODE-ZENER:MTZJ9.1B,9.1V,8.57-9.01V,500MW	
.2 DZ801	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V,500MW,DO-3	
.2 DZ802	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ803	0403-001167	DIODE-ZENER:MTZJ30D,30V,29.02-30.51V,500MW	
.2 DZ804	0403-000700	DIODE-ZENER:TZP33A,33V,31-35V,1W,DO-41,TP	
.2 DZ805	1203-001217	IC-POS,ADJUST REG,431,TO-92,3P,4.58MIL,PLASTIC,2	
.2 DZ806	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ808	0403-001322	DIODE-ZENER:MTZJ8.2B,7.78-8.19V,500MW,DO-3	
.2 DZ901	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ902	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ903	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ904	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ905	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ906	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 DZ907	0403-000508	DIODE-ZENER:MTZJ5.6B,5.6V,5.45-5.73V,500mW	
.2 F801A	3602-000114	FUSE-HOLDER:-,-,30mohm	
.2 F801B	3602-000114	FUSE-HOLDER:-,-,30mohm	
.2 F801S	3601-001086	FUSE-FERRULE:125V,5A,FA,GLASS,2.4x7.5mm	
.2 F802S	3601-001228	FUSE-AXIAL LEAD:125V,10A,FAST-ACTING,EPOXY-COA	
.2 F803S	3601-001086	FUSE-FERRULE:125V,5A,FA,GLASS,2.4x7.5mm	
.2 F801S	3601-000281	FUSE-FERRULE:250V,4A,TL,GLASS,5.2x20mm	



Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
..2 IC201S	1204-001735	IC-VIDEO PROCESS:VDP3130Y-B1,DIP64P,760MIL,PLA		..2 L901	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,TP,-	
..2 IC202	1203-001944	IC-POSIFIXED REG.:78RM33,TO-220,3P,-,PLASTIC,3.2		..2 L903	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,TP,-	
..2 IC301	AA96-00385A	ASSY H/S:-,AA62-30180K,LA7845,-		..2 L904	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,TP,-	
..3 IC301	AA62-30180K	HEAT-SINK,ES:-,A6063 EXTR,-,WHT,50/13,-,-,-		..2 L905	2001-000995	R-CARBON:820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..3 IC301	1204-000517	IC-VERTICAL DEF:LA7845,SIP,7P,-,PLASTIC,40V,11		..2 L906	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
..3 IC301	6003-000333	SCREW-TAPTITE:RH,+,2S,M3,L10,ZPC(YEL),SWRCH1		..2 LC801S	AA27-20004J	COIL-DEGAUSSING:-,25,14.5ohm,50T,L2600,E	
..2 IC401	1202-000103	IC-VOLTAGE COMP.:393,DIP8P,300MIL,DUAL,36V,CMO		..2 LD901	AA96-00461A	ASSY LED GUIDE:-,SL-255D,RED/GRN	
..2 IC501	AA96-00582A	ASSY H/S:-,CRT,AA62-00096A,STV5109,KS1A		..2 LR401S	AA27-00101A	COIL LINEARITY:58uH,58uH,DR14x15 C:6.0,11mm,1	
..3 IC501	AA62-00096A	HEAT SINK:KS2A,AL5052,T1.0,W36.0,H35.0,S		..2 LX801S	AA29-30002N	FILTER-LINE NOISE:-,16MH,1.5A,AC100-260V,28-16MH	
..3 IC501	1201-001687	IC-VIDEO AMP:STV5109,ZIP,15P,-,SIGLE,50dB,P		..2 LX802S	AA29-30002N	FILTER-LINE NOISE:-,16MH,1.5A,AC100-260V,28-16MH	
..3 IC501	6003-000334	SCREW-TAPTITE:RH,+,2S,M3,L6,ZPC(YEL),SWRCH18		..2 NT802S	1404-001045	THERMISTOR-NTC:4.7ohm,15%,2900K,35.0mW,TP	
..2 IC601	1204-001817	IC-SOUND PROCESSOR:MSP3400D-C5-G4-LH,DIP,52P,551M		..2 P801S	1404-000002	THERMISTOR-PTC:9ohm,20%,,-,TR,RECT,-	
..2 IC602	AA96-60619R	ASSY H/S:-,AA62-30182E,TDA7297,-		..2 PC801S	0604-001038	PHOTO-COUPLER:TR,130-260%,200mW,DIP-4,ST	
..3 IC602	AA62-30182E	HEAT-SINK,ES:-,A6063 EXTR,-,WHT,-,-,-,40/18		..2 PCB	AA41-00132G	PCB-MAIN:CT-21A8D,FR-1,1L,G,1.6T,330x24	
..3 IC602	1201-001064	IC-POWER AMP:7297,ZIP,15P,-,DUAL,32dB,PLAST		..2 Q201	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC602	6003-000333	SCREW-TAPTITE:RH,+,2S,M3,L10,ZPC(YEL),SWRCH1		..2 Q202	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 IC801S	AA96-50373F	ASSY H/S:-,PWM,AA62-30181K,KA3A1265RD,I		..2 Q203	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC801S	AA13-00101A	IC-HYBRID:KA3S1265RD,CN5039,5Pin,-,50T012		..2 Q204	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC801S	AA61-10386A	BRACKET-IC:-,SECC 100,T1.0,-,KA2S0680,-		..2 Q206	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,TP,120-	
..3 IC801S	AA62-30181K	HEAT-SINK,ES:-,AL6063 EXTR,-,2,WHT,40MM,-,AN		..2 Q207	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC801S	6003-000333	SCREW-TAPTITE:RH,+,2S,M3,L10,ZPC(YEL),SWRCH1		..2 Q208	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,TP,120-	
..2 IC803	1203-002085	IC-VOLTAGE REGULATOR:78R08,TO-220,4P,-,PLASTIC,8.8/		..2 Q209	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 IC804	AA96-00381A	ASSY H/S:REGULATOR,AA62-00045A,KA7806,D		..2 Q210	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,TP,120-	
..3 IC804	AA62-00065A	HEAT SINK-PS:DP,-,-,-,AA62-00045A,-,-,-,-,-		..2 Q211	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..4 IC804	AA62-00045A	HEAT SINK-PS:-,T1.0,-,-,DREAM,-,-,-,-,-		..2 Q212	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC804	1203-000284	IC-POSIFIXED REG.:7806,TO-220,3P,-,PLASTIC,5.75/		..2 Q213	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..3 IC804	6003-000335	SCREW-TAPTITE:RH,+,2S,M3,L8,ZPC(YEL),SWRCH18		..2 Q222	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 IC901	AA09-00115A	IC-MICOM:SIM806C-A007,CS21A9,52P,-,0.3 +		..2 Q402	0502-001007	TR-POWER:KSC2073-H2,NPN,25W,TO-220,ST,6	
..2 IC902	1103-001177	IC-EEPROM:24WC16,2048x8Bit,DIP,8P,-,2.		..2 Q404	0505-000156	FET-SILICON:IRF620,N,200V,5A,0.8ohm,50W,TO	
..2 IC903	1203-001944	IC-POSIFIXED REG.:78RM33,TO-220,3P,-,PLASTIC,3.2		..2 Q405	0501-000283	TR-SMALL SIGNAL:KSA539,PNP,400mW,TO-92,TP,120-	
..2 IC904	1203-001943	IC-VOL DETECTOR:7025,TO-92,3P,-,PLASTIC,-,400m		..2 Q602	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 J699	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		..2 Q802	0501-000369	TR-SMALL SIGNAL:KSC2331-Y,NPN,1W,TO-92L,-,120-	
..2 J705	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm		..2 Q902	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 J706	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm		..2 Q903	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 J707	2701-000142	INDUCTOR-AXIAL:1uH,10%,2.5x3.4mm		..2 Q904	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 J909	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		..2 Q905	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 J919	2701-000183	INDUCTOR-AXIAL:39uH,5%,2.5x3.4mm		..2 Q906	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 JA701	3722-001333	JACK-RCA:9P,3.2mm,NL,BLK,-		..2 Q907	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 JA702	3722-001596	JACK-RCA:3P/9P,3.5mm,NL,BLK(GRN/BLU/RED		..2 Q908	0501-000389	TR-SMALL SIGNAL:KSC815,NPN,400mW,TO-92,TP,120-	
..2 L102	2701-000200	INDUCTOR-AXIAL:5.6uH,10%,4.2x9.8mm		..2 Q909	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400mW,	
..2 L103	2701-000115	INDUCTOR-AXIAL:10uH,10%,2.8x7mm		..2 Q910	0505-000109	FET-SILICON:2N7000,N,60V,200mA,5ohm,400mW,	
..2 L201	2702-001094	INDUCTOR-RADIAL:10uH,10%,6x4mm		..2 R102	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L202	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		..2 R103	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L203	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R105	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L204	2702-001094	INDUCTOR-RADIAL:10uH,10%,6x4mm		..2 R106	2001-000864	R-CARBON:56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L207	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		..2 R201	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L208	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		..2 R202	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L209	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		..2 R203	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L301	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		..2 R204	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L302	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R205	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L303	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R206	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L401	2001-001037	R-CARBON(S):0.39OHM,5%,1/2W,AA,TP,2.4X6.4M		..2 R207	2001-000449	R-CARBON:2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L402	2901-000299	FILTER-EMI ON BOARD:-,6A,UL/CSA,-,9x7.5,TP,-		..2 R208	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L405	AA27-00096A	COIL HORIZ. WIDTH:-,10.0mH,DR15 X 27.5,UFW 0.3mm		..2 R209	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 L406	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		..2 R210	2001-000812	R-CARBON:5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 L407	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		..2 R211	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L408	AA27-00097A	COIL HORIZ. WIDTH:-,700uH,DR15 X 27.5,USTC 0.12m		..2 R212	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L410	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R213	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 L411	2201-000551	C-CERAMIC,DISC:470pF,10%,1KV,Y5P,TP,8x5,5		..2 R214	2001-000008	R-CARBON:15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L601	2701-000115	INDUCTOR-AXIAL:10uH,10%,2.8x7mm		..2 R215	2001-000522	R-CARBON:22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L602	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		..2 R216	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L603	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm		..2 R222	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L604	2701-000168	INDUCTOR-AXIAL:3.3uH,5%,2.5x3.4mm		..2 R223	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L607	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		..2 R224	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L608	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		..2 R225	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L609	2701-000115	INDUCTOR-AXIAL:10uH,10%,2.8x7mm		..2 R226	2001-000628	R-CARBON:300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L610	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R228	2001-001170	R-CARBON(S):6.8OHM,5%,1/2W,AA,TP,2.4X6.4MM	
..2 L705	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		..2 R231	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L706	2701-000177	INDUCTOR-AXIAL:33uH,10%,2.5x3.4mm		..2 R232	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L801	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R233	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L802	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R234	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L803	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R235	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L804	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		..2 R236	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L806	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R237	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L807	2901-000297	FILTER-EMI ON BOARD:-,3A,-,-,3.5x5,TP,-		..2 R238	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L808	AA27-00098A	COIL CHOKE:-,24uH,10%,0.1,3.0A,DR10X1		..2 R241	2001-000362	R-CARBON:150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 L809	3301-000287	CORE-FERRITE BEAD:AA,3.5x1.0x6.0mm,1500,2400G		..2 R243	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	



Loc. No.	Code No.	Description ; Specification	Remark
.2 R245	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8X3.2mm	
.2 R246	2001-000281	R-CARBON:1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R248	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R249	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R250	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
.2 R251	2001-000281	R-CARBON:1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R252	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R253	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R254	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R255	2001-000005	R-CARBON:390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
.2 R256	2001-000281	R-CARBON:1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R258	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R259	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R260	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R261	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R262	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R263	2001-000786	R-CARBON:47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R264	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
.2 R265	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
.2 R267	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
.2 R268	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R301	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4m	
.2 R302	2004-001984	R-METAL(S):26.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
.2 R303	2001-000016	R-CARBON(S):10HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R304	2008-001133	R-FUSIBLE(S):0.75ohm,5%,2W,AF,TP,3.9x10mm	
.2 R305	2003-002182	R-METAL OXIDE(S):470ohm,5%,2W,AG,TP,3.9x12mm	
.2 R306	2003-002182	R-METAL OXIDE(S):470ohm,5%,2W,AG,TP,3.9x12mm	
.2 R307	2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R308	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R309	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R310	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R313	2004-001137	R-METAL:6.8Kohm,1%,1/8W,AA,TP,1.8x3.2m	
.2 R314	2004-001986	R-METAL(S):35.7Kohm,1%,1/2W,AA,TP,2.4x6.4	
.2 R315	2004-004970	R-METAL(S):62Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
.2 R401	2003-002186	R-METAL OXIDE(S):22Kohm,5%,2W,AG,TP,3.9x12mm	
.2 R402	2003-002186	R-METAL OXIDE(S):22Kohm,5%,2W,AG,TP,3.9x12mm	
.2 R403	2003-002037	R-METAL OXIDE(S):270ohm,5%,2W,AF,TP,3.9x10mm	
.2 R404	2001-001037	R-CARBON(S):0.390HM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R405	2008-000251	R-FUSIBLE(S):0.27ohm,5%,2W,AF,TP,3.9x10mm	
.2 R407	2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R408	2008-000284	R-FUSIBLE(S):0.10HM,10%,2W,AF,TP,3.9X10MM	
.2 R409	2001-001165	R-CARBON(S):560HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R410	2001-001192	R-CARBON(S):8200HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R411	2001-000281	R-CARBON:1000OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R412	2001-000020	R-CARBON(S):220HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R413	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10mm	
.2 R414	2001-001187	R-CARBON(S):750HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R415	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	
.2 R417	2004-001893	R-METAL(S):22Kohm,1%,1/2W,AA,TP,2.5x6.5mm	
.2 R418	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R420	2001-001168	R-CARBON(S):6.8KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R421	2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R424	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10mm	
.2 R425	2008-001018	R-FUSIBLE(S):0.47ohm,10%,2W,AF,TP,3.9x10mm	
.2 R426	2003-000540	R-METAL OXIDE(S):1Kohm,5%,2W,AF,TP,4x12mm	
.2 R427	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R428	2001-001106	R-CARBON(S):220KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R429	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4m	
.2 R432	2004-001397	R-METAL(S):4.7Kohm,1%,1/2W,AA,TP,2.4x6.4m	
.2 R433	2008-001127	R-FUSIBLE(S):6.8Kohm,5%,1W,AF,TP,3.9X10MM	
.2 R434	2003-000664	R-METAL OXIDE(S):33ohm,5%,2W,AF,TP,4x12mm	
.2 R436	2003-002151	R-METAL OXIDE:18KOHM,5%,2W,AG,TP,6X16MM	
.2 R437	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R438	2001-001131	R-CARBON(S):33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R440	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R441	2001-001144	R-CARBON(S):4.7KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R501	2001-000904	R-CARBON:620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R502	2001-000904	R-CARBON:620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R503	2001-000904	R-CARBON:620OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R504	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R505	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R506	2001-000613	R-CARBON:3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R507	2001-001065	R-CARBON(S):110KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R509	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R510	2001-001065	R-CARBON(S):110KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R511	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R512	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP,3.7x9mm	

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.2 R513	2001-001065	R-CARBON(S):110KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R515	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP,3.7x9mm	
.2 R517	2001-000405	R-CARBON:180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R518	2002-001008	R-COMPOSITION:1.8Kohm,10%,1/2W,AA,TP,3.7x9mm	
.2 R519	2702-001096	INDUCTOR-RADIAL:33uH,10%,6x4mm	
.2 R521	2002-001009	R-COMPOSITION:2.7Kohm,10%,1/2W,AA,TP,3.7X9.0	
.2 R522	2008-000206	R-FUSIBLE(S):1ohm,5%,1/2W,AF,TP,2.5x6.5mm	
.2 R524	2001-001062	R-CARBON(S):10MOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R527	2001-001074	R-CARBON(S):1300HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R601	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R602	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R603	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R604	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
.2 R605	2701-000114	INDUCTOR-AXIAL:10uH,10%,2.5x3.4mm	
.2 R606	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R607	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R608	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R609	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R610	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R611	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R612	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R613	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R614	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R615	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R616	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R617	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R619	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R620	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R621	2001-000924	R-CARBON:6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R622	2001-000924	R-CARBON:6800HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R623	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R704	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R705	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R709	2001-000938	R-CARBON:680HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R715	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R716	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R719	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R720	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R721	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R722	2001-000969	R-CARBON:750HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R723	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R730	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R731	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R802	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x10mm	
.2 R803	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x10mm	
.2 R804	2003-001025	R-METAL OXIDE(S):15Kohm,5%,2W,AF,TP,3.9x10mm	
.2 R805	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R806	2001-001150	R-CARBON(S):470KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R807	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP,4x12mm	
.2 R808	2003-000746	R-METAL OXIDE(S):56ohm,5%,2W,AF,TP,4x12mm	
.2 R809	2001-000022	R-CARBON(S):330HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R810	2001-001178	R-CARBON(S):6800HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R811	2001-001078	R-CARBON(S):15KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R812	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R813	2001-001153	R-CARBON(S):470HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R816	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R817	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R818	2001-001113	R-CARBON(S):270KOHM,5%,1/2W,AA,TP,2.4X6.4M	
.2 R819	2004-001983	R-METAL(S):2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	
.2 R821	2004-001889	R-METAL(S):127Kohm,1%,1/2W,AA,TP,2.5x6.5m	
.2 R822	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R823	2001-000273	R-CARBON:100KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R824	2001-000522	R-CARBON:22KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R825	2001-000066	R-CARBON(S):10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R826	2001-001072	R-CARBON(S):120HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R827	2008-000284	R-FUSIBLE(S):0.10HM,10%,2W,AF,TP,3.9X10MM	
.2 R828	2008-000266	R-FUSIBLE(S):1ohm,5%,2W,AF,TP,3.9x10mm	
.2 R829	2003-001036	R-METAL OXIDE(S):3.3ohm,5%,2W,AF,TP,3.9x10mm	
.2 R831	2001-000780	R-CARBON:4700HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R832	2001-001153	R-CARBON(S):470HM,5%,1/2W,AA,TP,2.4X6.4MM	
.2 R833	2001-000472	R-CARBON:2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R835	2003-002211	R-METAL OXIDE(S):91Kohm,5%,2W,AG,TP,3.9x12mm	
.2 R836	2003-002211	R-METAL OXIDE(S):91Kohm,5%,2W,AG,TP,3.9x12mm	
.2 R901	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R902	2001-000281	R-CARBON:1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
.2 R903	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
.2 R904	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	



Loc. No.	Code No.	Description : Specification	Remark
..2 R905	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R906	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R907	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R908	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R909	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R910	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R911	2001-000003	R-CARBON:330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
..2 R912	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R913	2001-000947	R-CARBON:7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R914	2001-000221	R-CARBON:1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R915	2001-000577	R-CARBON:2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R916	2001-000007	R-CARBON:3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R917	2001-000878	R-CARBON:6.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R918	2001-000009	R-CARBON:20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R919	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R920	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R921	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R922	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R923	2001-000924	R-CARBON:680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R924	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R925	2001-001035	R-CARBON:910HM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R926	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R929	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R930	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R931	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R932	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R933	2001-000780	R-CARBON:470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R934	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R935	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R937	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R938	2001-000290	R-CARBON:10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R939	2001-001153	R-CARBON(S):47OHM,5%,1/2W,AA,TP,2.4X6.4MM	
..2 R940	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R941	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R942	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R943	2001-000429	R-CARBON:1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R944	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R945	2001-000281	R-CARBON:100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R946	2001-000515	R-CARBON:220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
..2 R947	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R948	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R952	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 R953	2001-000734	R-CARBON:4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
..2 RL801S	3501-001040	RELAY-POWER:12VDC,500mW,10A,1FormA,1mS,5m	
..2 RM901	AA32-00001A	MODULE REMOCON:-,ORC-195VF,38KHZ,940nm,MESH,-	
..2 RP801S	2002-001010	R-COMPOSITION:1.8Mohm,5%,1/2W,AA,TP,3.7x9mm	
..2 RR430S	2001-001088	R-CARBON(S):1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
..2 RX801S	2002-001011	R-COMPOSITION:3.3Mohm,5%,1/2W,AA,TP,3.7x9mm	
..2 RY801S	2002-001011	R-COMPOSITION:3.3Mohm,5%,1/2W,AA,TP,3.7x9mm	
..2 RY802S	2002-001013	R-COMPOSITION:4.7Mohm,5%,1/2W,AA,TP,3.7x9mm	
..2 SW801S	3403-000179	SWITCH-PUSH:250V,5A,DPST,-,JPW-2104B	
..2 SW901	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SPST	
..2 SW902	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SPST	
..2 SW903	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SPST	
..2 SW904	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SPST	
..2 SW905	3404-000244	SWITCH-TACT:15V,20mA,90-170gf,7.5x7mm,SPST	
..2 T401	AA26-50001R	TRANS-HORIZ DRIVE:-,80MH,520UH,4UH,G11A EI19,ST	
..2 T444S	AA26-00141A	TRANS FBT:BSC29-2108,AA26-00057A,130V	
..2 T801S	AA26-00044A	TRANS SWITCHING:-,-,AC90 260V,DC135/15.5/12.	
..2 TU01S	AA40-00060A	TUNER-F/S:TCPS3001PD09D(S)-,PAL-M(NTSC)	
..2 V999S	3704-001105	SOCKET-CRT:11P,20PI,26,5PI,NI,-	
..2 VP801S	1405-000187	VARIISTOR:750V,1250A,12.5x7mm,TP	
..2 VX801S	1405-000187	VARIISTOR:750V,1250A,12.5x7mm,TP	
..2 X201	2801-003432	CRYSTAL-UNIT:20.25MHZ,30PPM,28-AAM,13Pf,200	
..2 X601	2801-003903	CRYSTAL-UNIT:18.432MHz,25ppm,28-AAM,12pf,20	
..2 X901	2801-003728	CRYSTAL-UNIT:6MHz,30ppm,28-AAM,20pf,40ohm,T	
..2	AA39-20010B	LEAD-CONNECTOR,ASSY:-,YFH800-01,S,1P,500,1617#22	
..2	AA39-20010D	LEAD-CONNECTOR,ASSY:-,YFH800-01,S,1P,400,1617#22	

**ASSY-POWER,CORD**

0.1 *	AA96-00043A ASSY-POWER, CORD;-; RVVB 2X075.240, EP2/YES, 500MM
.2	AA39-00096B POWER CORD;-; RVVZ-2P, RVVB 2X0.75, 2400;-; C
.2	AA61-00632A HOLDER;-; NYLON, BLK, V2;-;-

Loc. No.	Code No.	Description ; Specification	Remark
		<b>ASSY CRT</b>	
0.1 *	AA94-03153A	ASSY CRT:AA59KPR84X01,-,25,ITC,CS25D6,	
.2	AA03-00219A	CRT COLOR:A59KPR84X01,25,523.8X411.0,-,	
		<b>ASSY SPEAKER</b>	
0.1 *	AA96-00598A	ASSY SPEAKER:-,80HM,10W,-,-	
.2	AA39-00179B	LEAD CONNECTOR ASSY:2926D,4P,67096-004,500,770	
.2	AA60-00096H	SPACER-FELT:CS2551N,FELT,L150,T0.3,W20	
.2	AA60-00104A	SPACER-SPONGE:CS2551N,SPONGE,BLK	
.2	AA61-00648A	HOLDER-SPK:CS2551N,PP,BLK	
.2	3001-001171	SPEAKER:10W,8ohm,84dB,Fo-15KHz	
.2	6003-001019	SCREW-TAPTITE:RH,+ ,B,M4,L12,ZPC(BLK),SWRCH18	
		<b>ASSY ACCESSORY</b>	
0.1 *	AA97-01271A	ASSY ACCESSORY:,CS2551S,KS2A	
.2	AA68-00806A	CARD WARRANTY:ALL,PAPER,95X210,CLR,CHINA,SAM	
.2	AA68-01312E	MANUAL USERS:KS2A SAMSUNG,CHINA,CHI,W/P100G	
.2	4301-001017	BATTERY-ALKALINE:1.5V,-,AA,14.5X50.5MM,-	
		<b>REMOCON</b>	
0.1 *	AA59-00133H	REMOCON:DP,M59,AA59-00104H,-,-,-,-,-,-,-,-,-,-	
		<b>ASSY CABINET(COM)</b>	
0.1 *	AA90-00703A	ASSY CABINET(COM):-,CS2551S	
.2	AA60-00096F	SPACER-FELT:CS2551N,FELT,L95,T0.5,W20	
.2	AA60-00096G	SPACER-FELT:CS2551N,FELT,L95,T0.5,W20	
.2 CRT+CF	AA60-10050Q	SCREW-ASSY:WC,HH,+ ,M5,L26.5,SWRCH18A,ZPC(	
.2	AA61-00707B	HOLDER-COVER:ALL MODEL,NYLON-66 T1.0 V2,-,-	
.2	AA63-00383A	SHEET-PFC:CS2551N,-,T0.5,-,125.65,BLK	
.2	AA63-60004G	SPACER-GUM,CRT:NTR RUBBER,T3.0,GRY,-,-,-	
.2	AA64-00892T	INLAY BACK:D2,D3 CHINA,PS SHEET,T0.3,-,BL	
.2	AA64-30950B	CABINET BACK:CS2551N,HIPS,-,-,-,V0,BLK,-	
.2	AA65-30008A	CLAMP-CORD:PE,HB,BLK,-,-,-,-	
.2	AA65-30113A	CLAMP-D,COIL,NYLON 66,V2,BLK,TVI 25-29,-,-	
.2 SPK+CF	6002-000514	SCREW-TAPPING:RH,+ ,2,M4,L15,ZPC(BLK),SWRCH18	
.2 CB+RCA	6003-001019	SCREW-TAPTITE:RH,+ ,B,M4,L12,ZPC(BLK),SWRCH18	
.2 CB+CF	6003-001026	SCREW-TAPTITE:RH,+ ,B,M4,L15,ZPC(BLK),SWRCH18	
		<b>ASSY CABINET FRONT</b>	
0.1 *	AA90-00704A	ASSY CABINET FRONT:-,CS2551S	
.2	AA61-00479E	SPRING-CS:,0CR18NI9,0.5,N6,OD10,H18	
.2	AA61-40007A	STOPPER-PCB:5038.5368,ABS HB,NTR,-,-,-	
.2	AA63-00188B	GRILLE SHEET:CS2551N,P10.5,PS,T0.4,SV-012P,	
.2	AA64-01645A	KNOB POWER:CS2551N,ABS,-,SV-012P,-,HB,-,-	
.2	AA64-01646A	KNOB CONTROL:CS2551N,ABS,-,SV-012P,-,HB,-,-	
.2	AA64-30951B	CABINET-FRONT:-,2551,-,HIPS,-,BLK,3,-	
.2	AA64-40368A	INDICATOR-LED:-,6251,-,ACRVL,-,CLEAR,-	
.2	AA64-01646A	KNOB WINDOW-REMOCON:-,6251,LG41338,ABS,HB,-,-	
.2	AA64-70117B	BADGE-BRAND:AL,SS,SILVER,L65,R2000,-,-	
.2	AA65-30105B	CLAMP-WIRE:NYLON 66,V2,NTR,25MM,ALL MODEL	
.2 WR+CF	6002-000514	SCREW-TAPPING:RH,+ ,2,M4,L15,ZPC(BLK),SWRCH18	
.2 KC+CF	6002-000514	SCREW-TAPPING:RH,+ ,2,M4,L15,ZPC(BLK),SWRCH18	

## ASSY CRT

**ASSY SPEAKER**

## ASSY ACCESSORY

## REMOCON

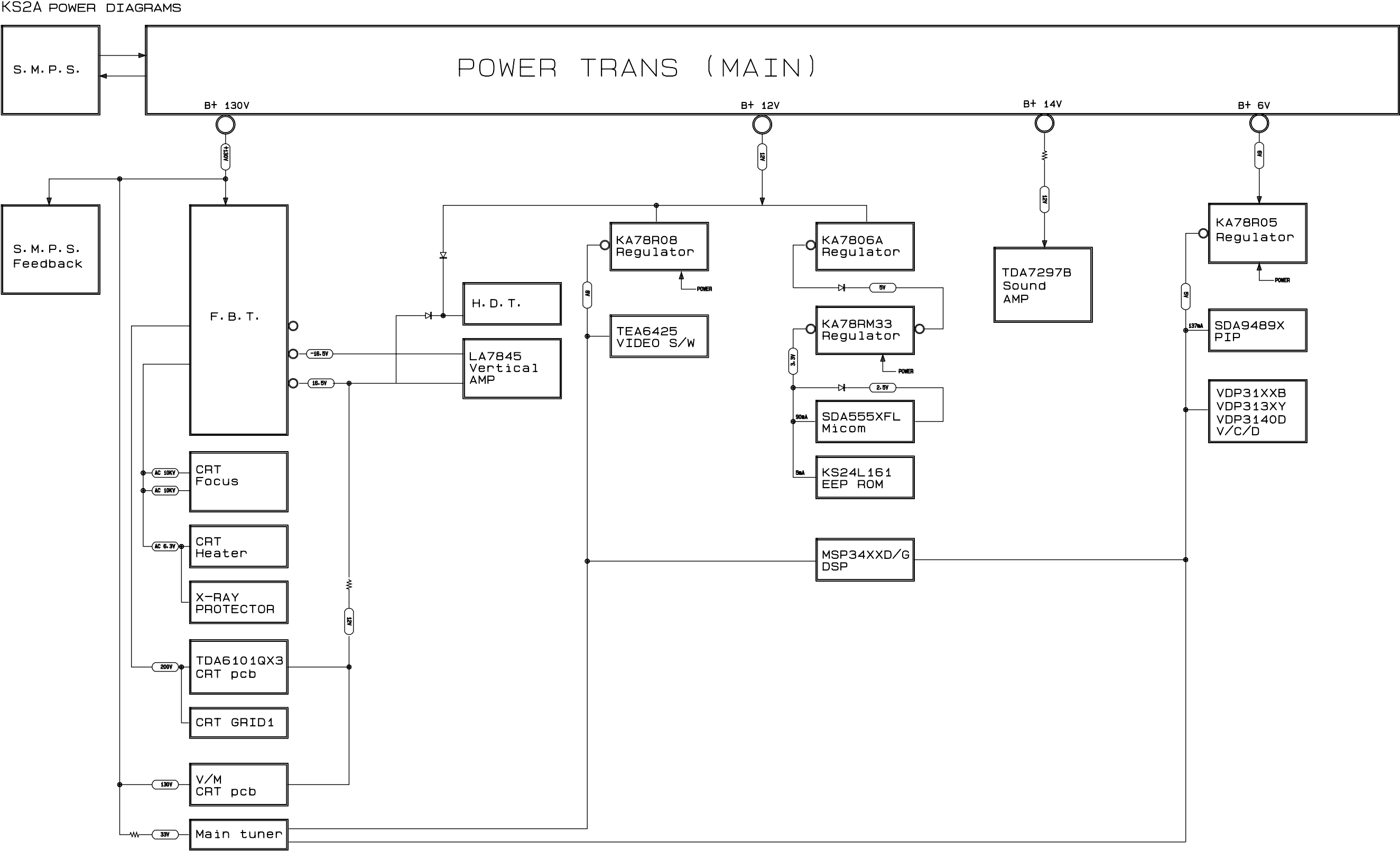
## ASSY CABINET(COM)

## ASSY CABINET FRONT



8. Block Diagrams

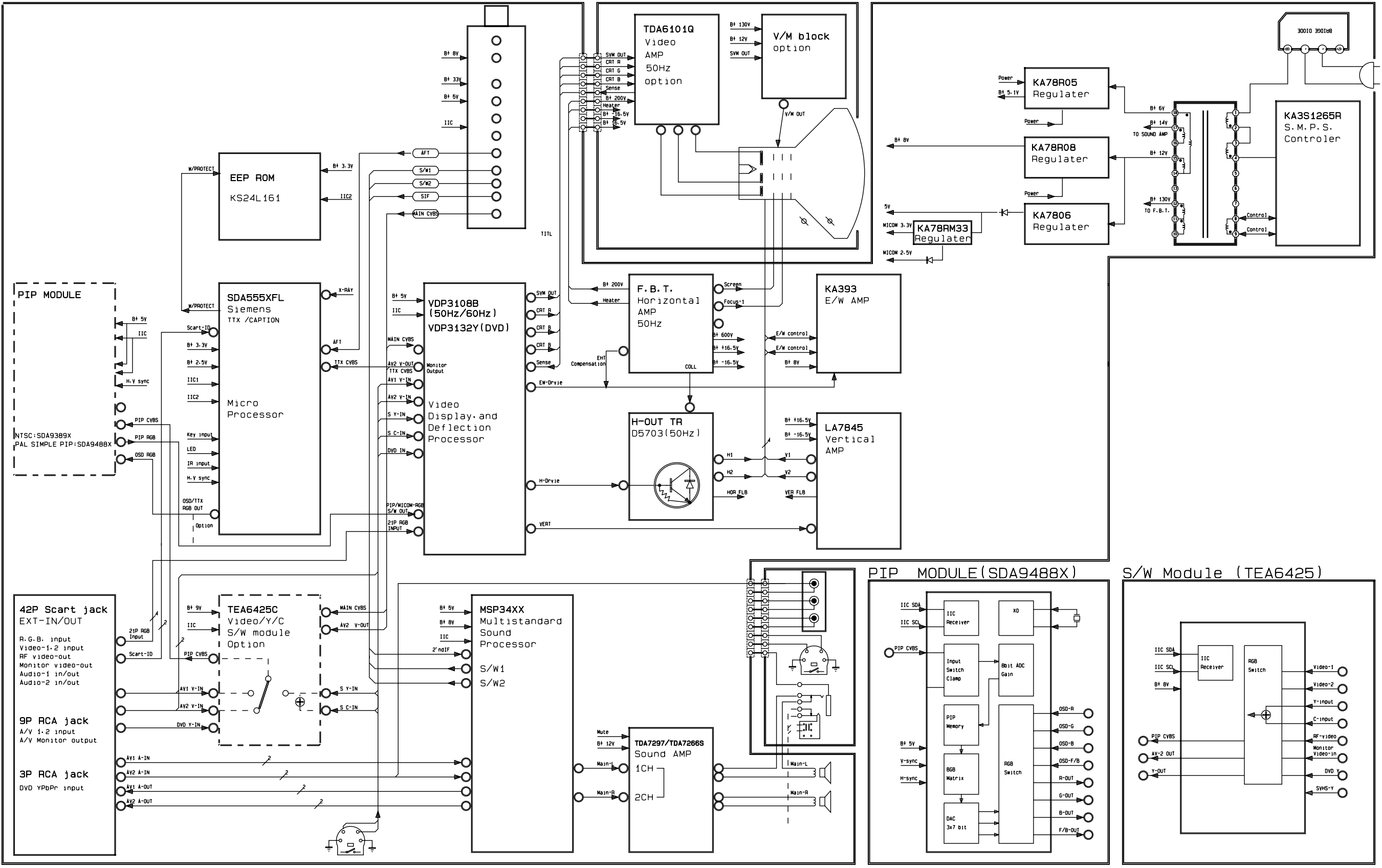
8-1 Power Diagram





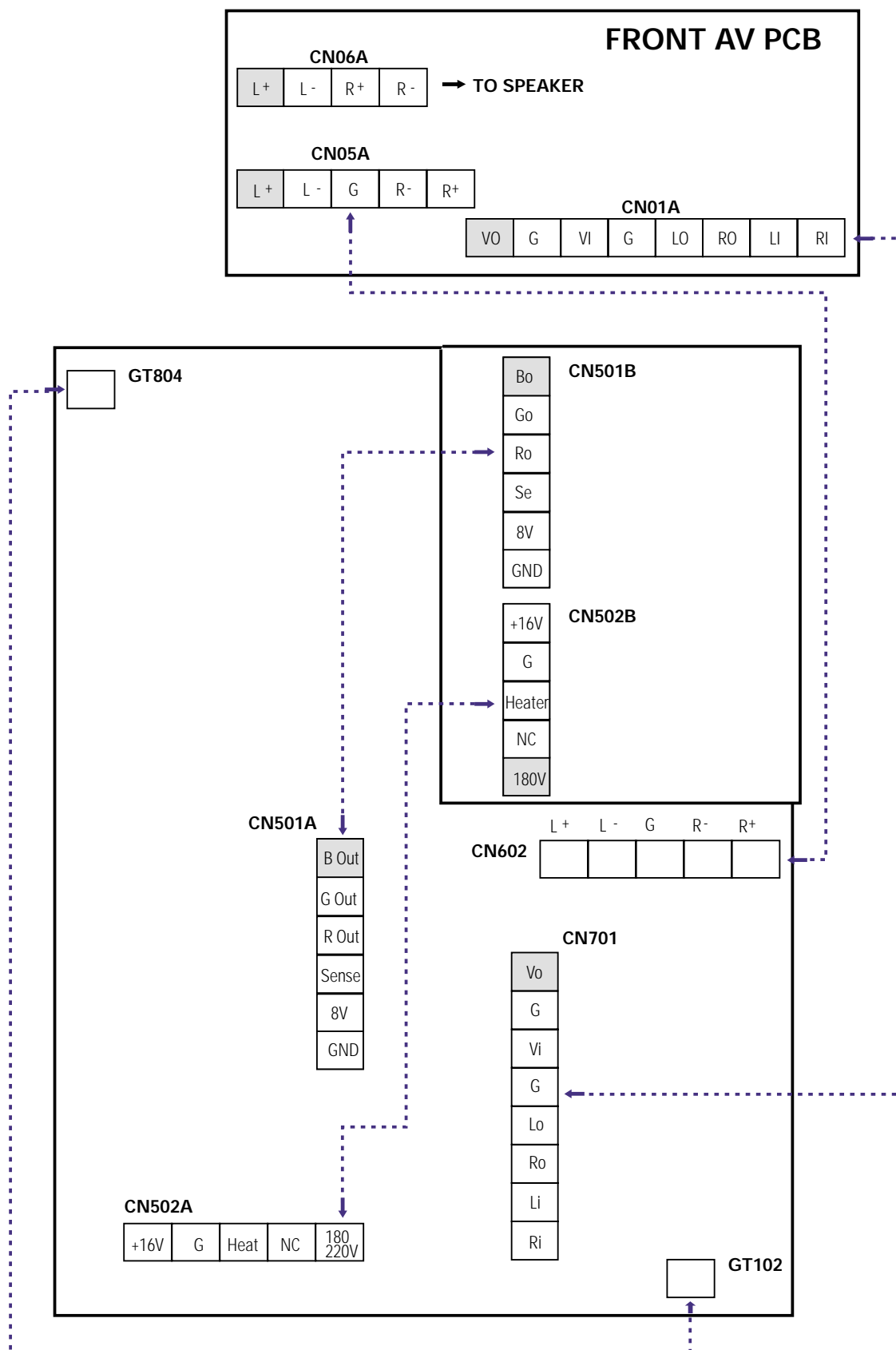
# 8-2 Block Diagram

KS2A POWER DIAGRAMS





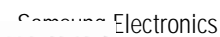
## 9. Wiring Diagram



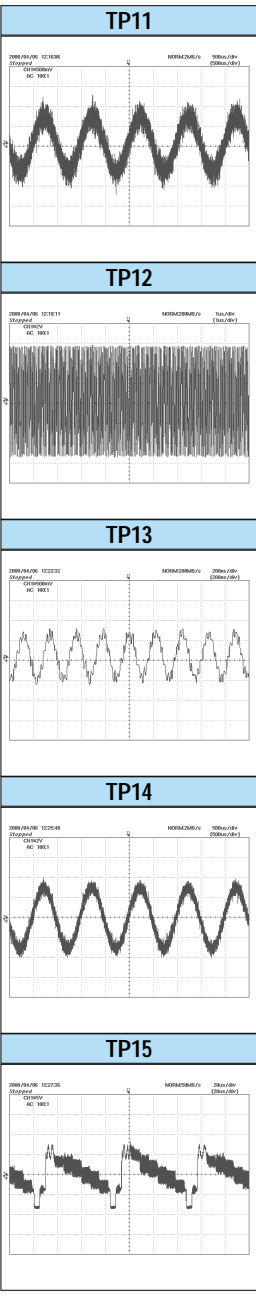
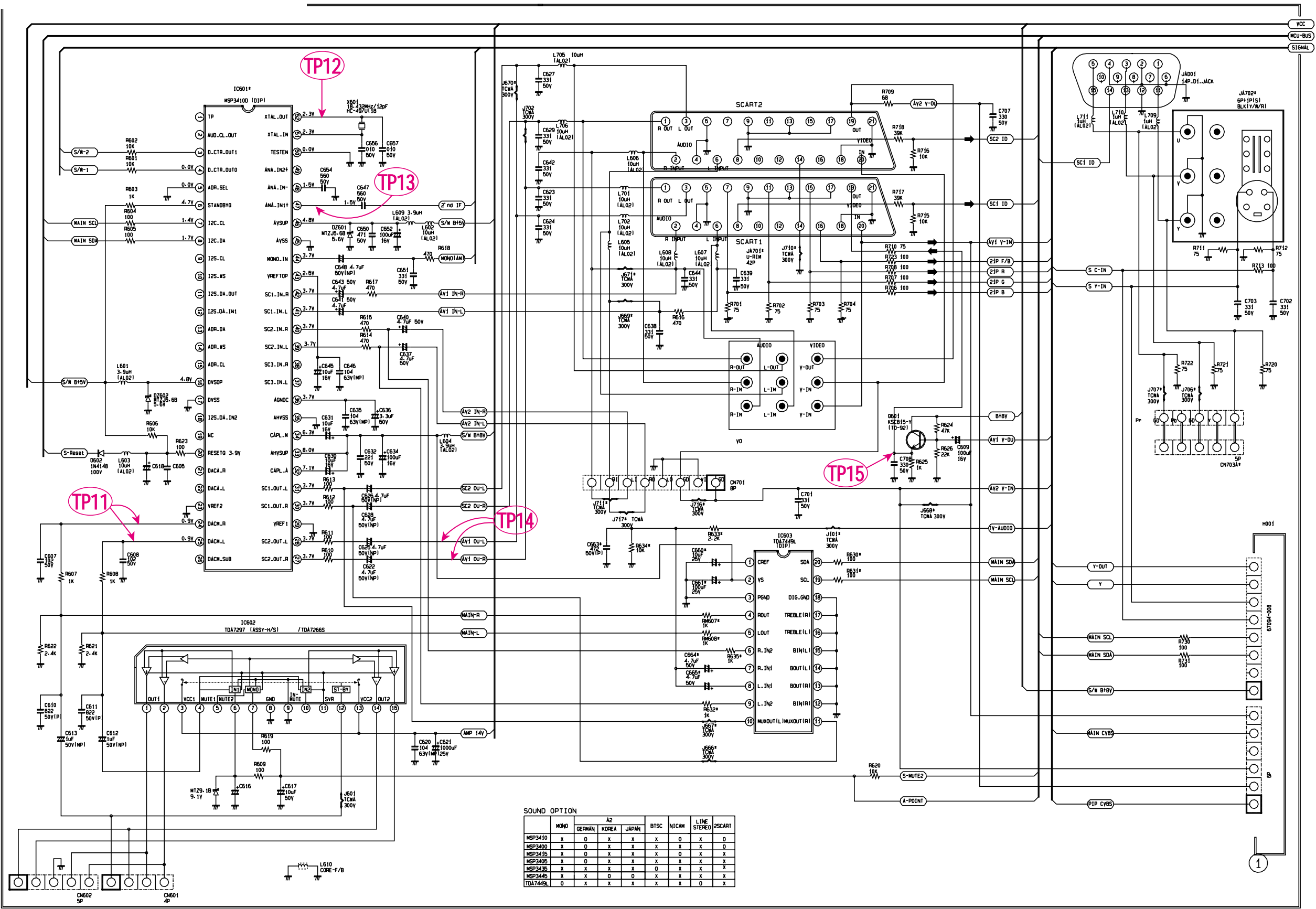
# MEMO



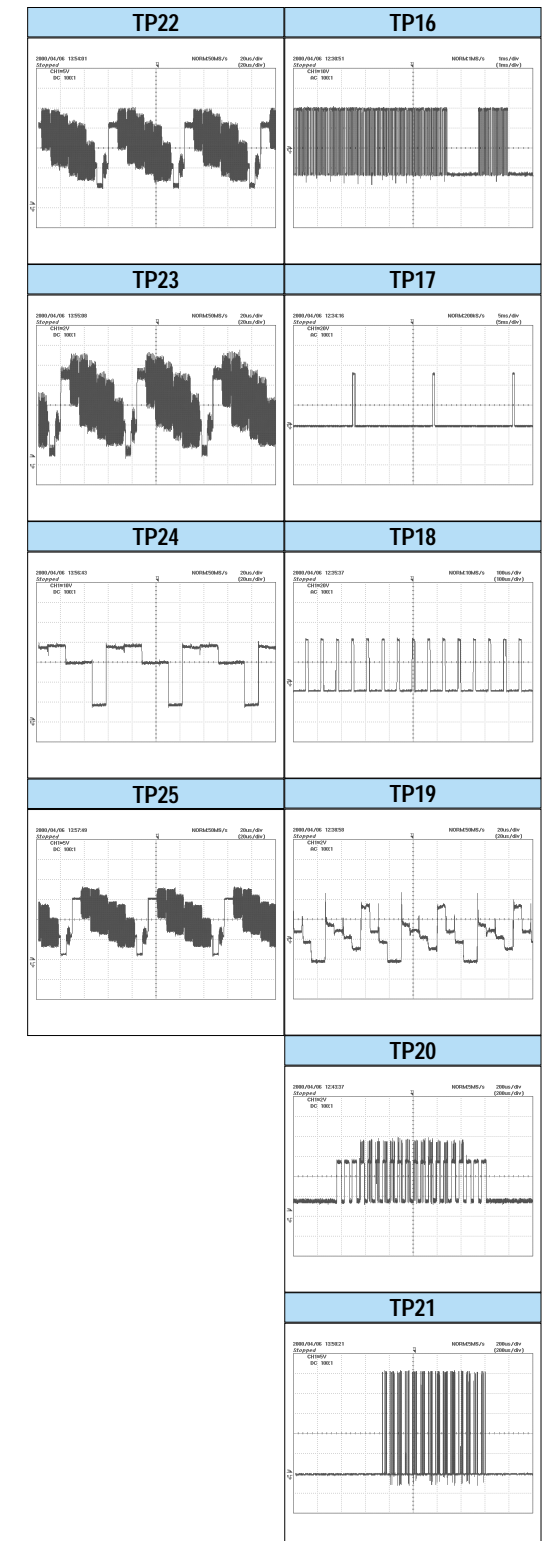
**10-1 MAIN 1/4 (WITH EW)**



10-2 MAIN 2/4



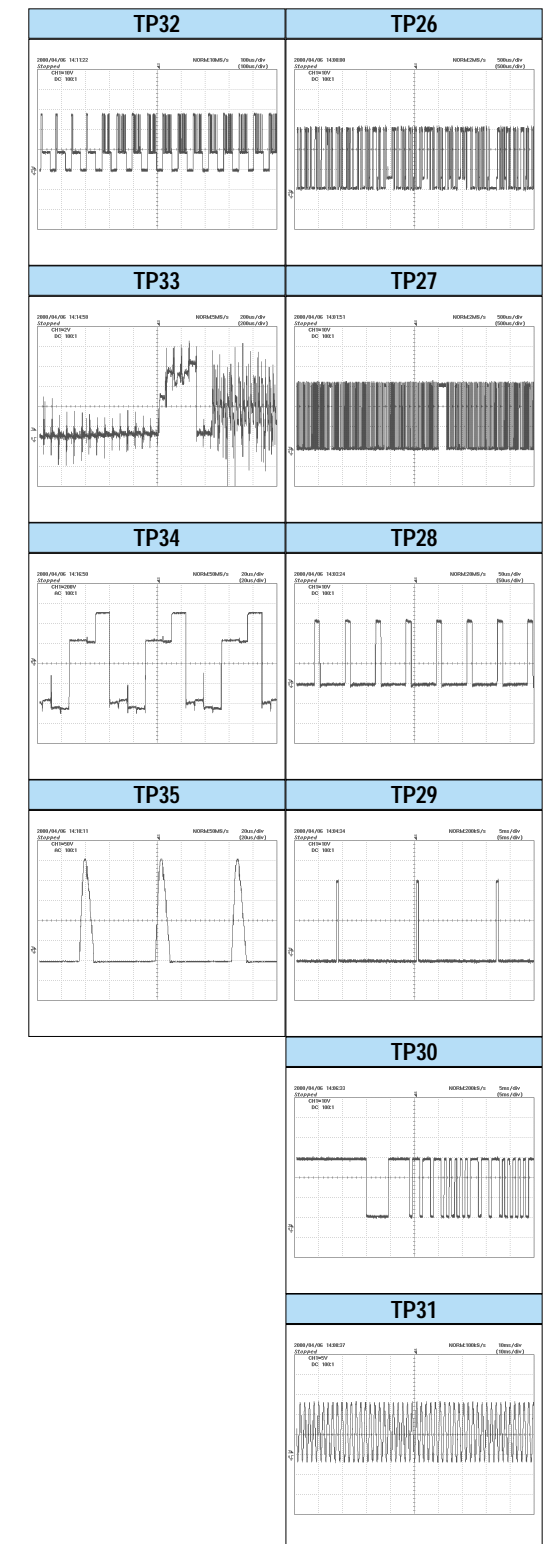
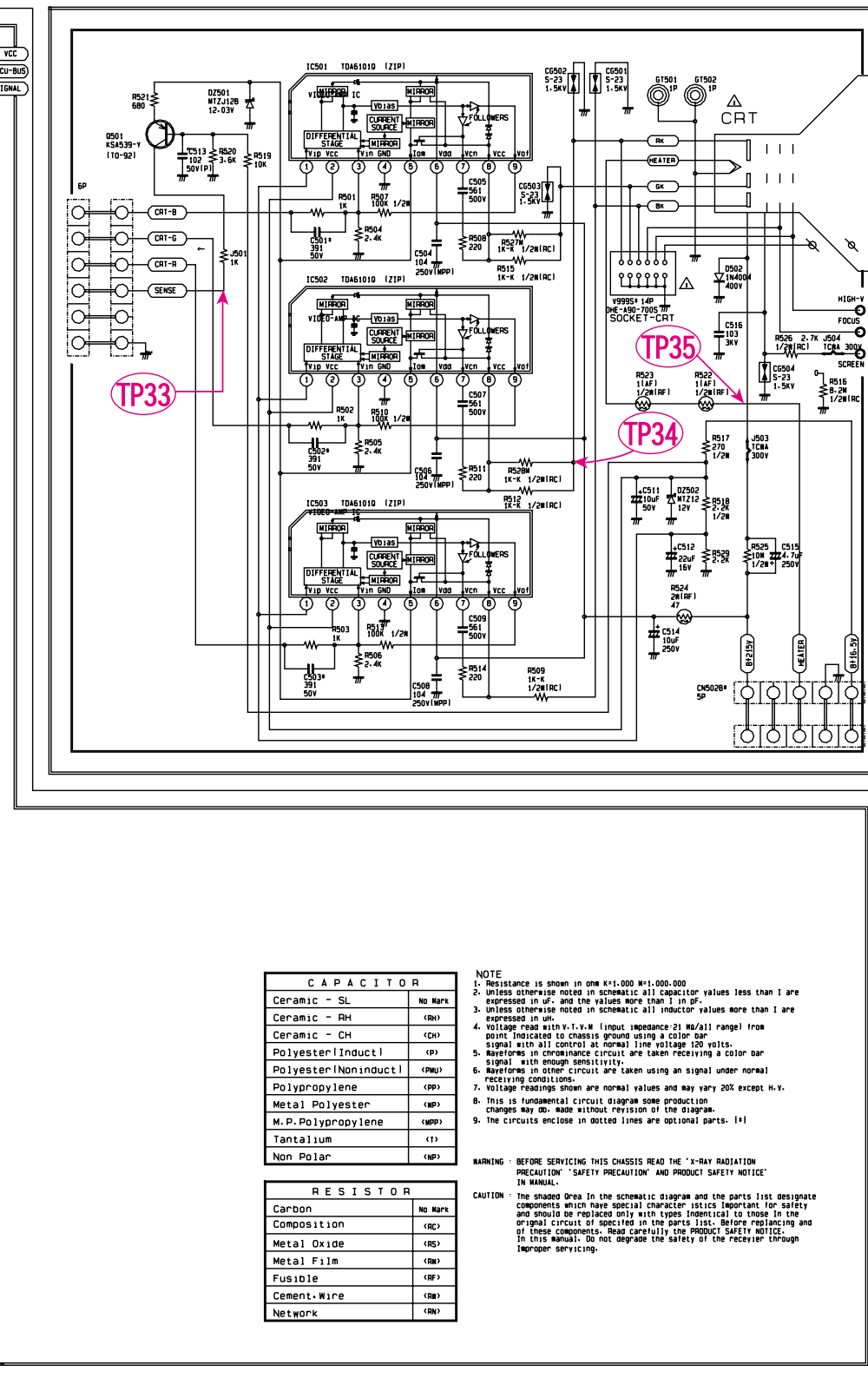
Power Line  
Signal Line



----- : Power Line  
----- : Signal Line

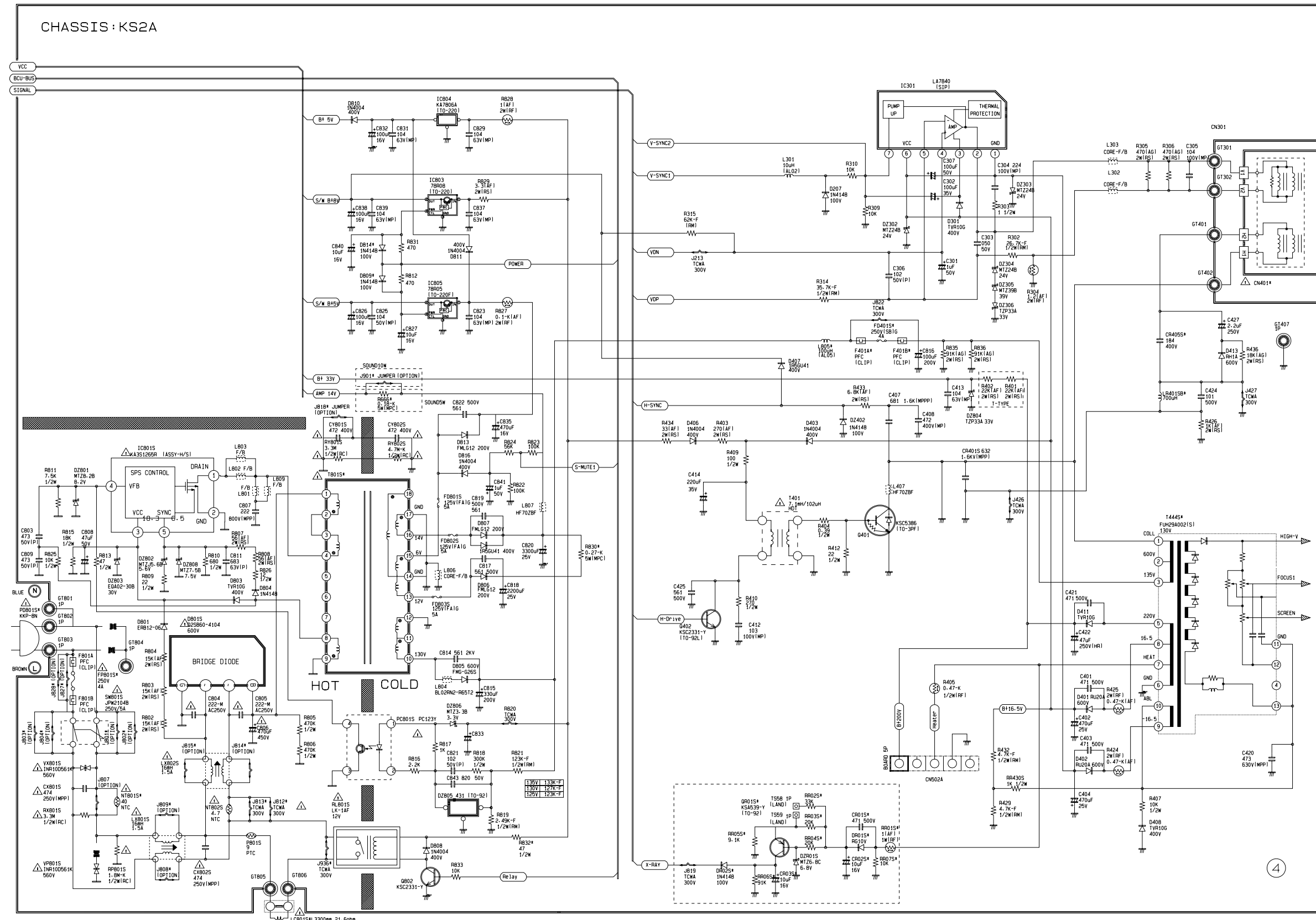


10 1

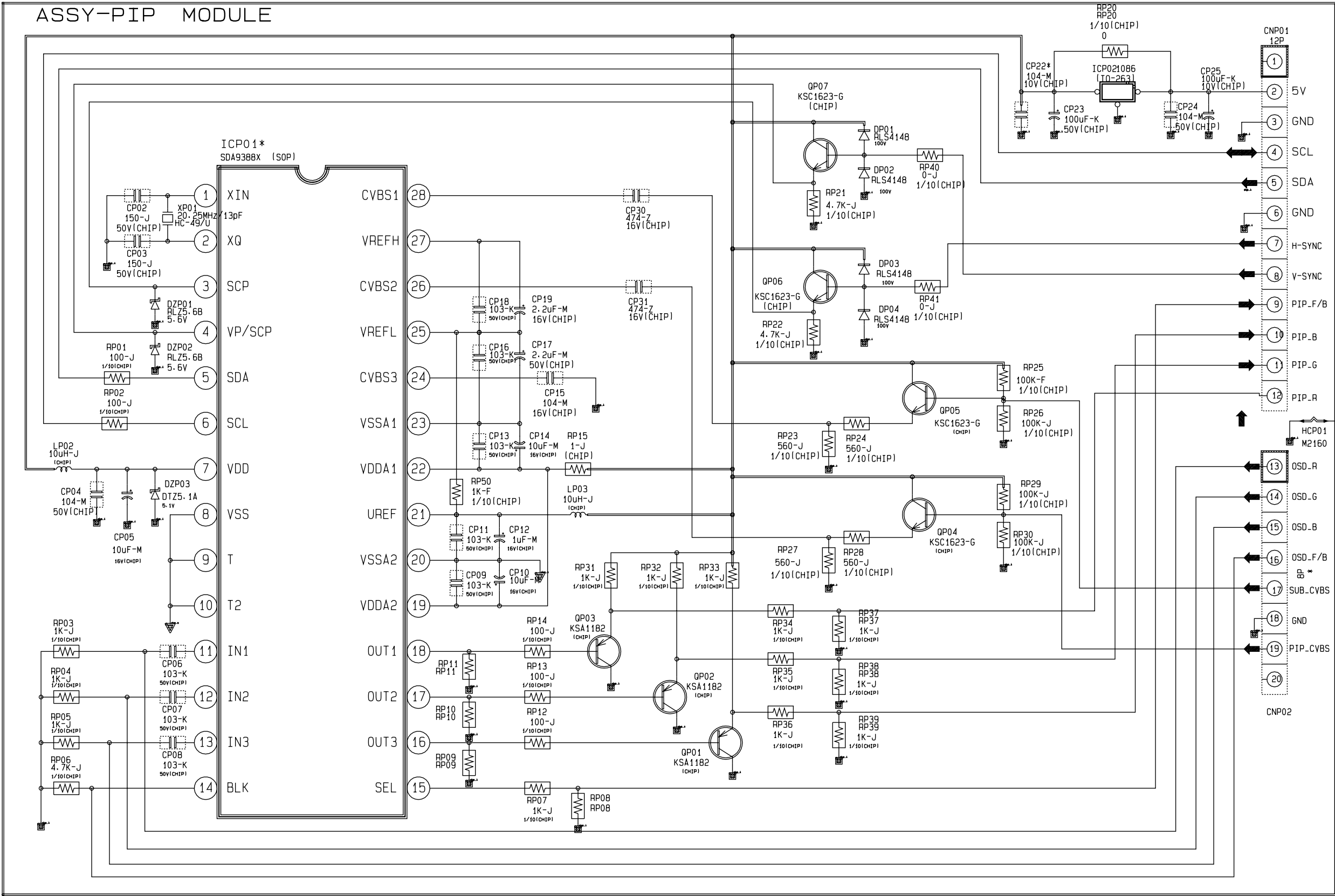


----- : Power Line  
----- : Signal Line

10-5 POWER (W/O -EW)



10-6 PIP





10-7 VIDEO SWITCH

